



Digitized by the Internet Archive
in 2014

<https://archive.org/details/b19974760M1636>



XMAS 1909

NEW YEAR 1910

On this the first Christmas of our second half-century we desire to acknowledge with thanks the many kindnesses received during the past fifty years from those engaged in Pharmacy, Chemical Industry and allied trades, in all parts of the world. We welcome this opportunity of wishing our friends at home and overseas the happiest of Christmases and the brightest and most prosperous of New Years.

*The Chemist & Druggist,
42, Cannon St., London, E.C.*

BEETHAM'S
Larola^{Reg'd}

IS THE SKIN TONIC

FOR 1910

It is effective.

It is attractive.

It is price-protected.

It is well-advertised.

It sells readily.

It bears a good profit.

The Larola Preparations



IF YOU WILL GIVE THEM
 A GOOD SHOW,
 will considerably increase
 YOUR BANK BALANCE
 and add to
 YOUR PROSPERITY
 during the coming YEAR.

**We herewith send you
 SEASONABLE GREETINGS.**

This handsome Show Card, in 14 colours (size 24 x 17), can be had by any chemist who will give it a good place in his Pharmacy.

**M. BEETHAM & SON,
 CHELTENHAM.**



EVANS

DIRECTORS:**JOHN JAMES EVANS, Chairman.***Senior Directors:***SIR EDWARD EVANS.****WILLIAM PATERSON EVANS.****EDWARD ALFRED WEBB.****ALFRED BICKERTON EVANS.***Junior Directors:***JAMES HERBERT EVERETT EVANS.****HAROLD EDWARD WEBB.****THOMAS EDWARD LESCHER.****JOHN NEVETT EVANS.****KENNETH WOLLASTON EVERETT EVANS.**

The joint businesses in Liverpool and London are under the personal management of the Directors.

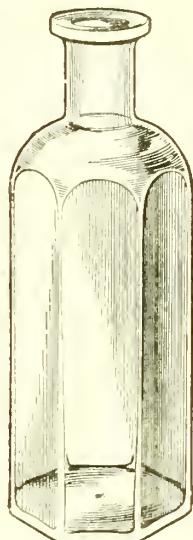
They desire to thank their friends for the increased support given them in 1909, and trust 1910 may be a prosperous year to all concerned.

Send for price lists of all departments and get quotations for any goods in quantity.

EVANS SONS LESCHER & WEBB,
LIVERPOOL and LONDON.

LIMITED.

Also NEW YORK, U.S.A.



THE “IDEAL” BOTTLE

THE BEST FOR .

Specialities & Preparations.

The several flat sides have the effect of brilliantly reflecting the contents, thus increasing the natural brightness of the preparation. This is particularly evident if seen in a good light or in a window.

A GOOD ATTRACTIVE BOTTLE WELL LABELLED AND FINISHED FREQUENTLY SELLS A PREPARATION.

Look at the Prices per Gross.

	½ oz.	1 oz.	1½ oz.	2 oz.	3 oz.	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.
White Glass, Plain	4/6	5/-	5/9	6/6	7/3	8/9	10/9	13/-	15/6	17/-	22/-	27/-
White Glass, Globe Stoppered ...	18/6	19/-	20/-	20/6	21/9	24/-	28/-	31/6	34/-	37/-	44/-	48/-
Amber and Actinic, Plain ...	5/3	5/9	6/6	7/3	8/-	9/6	12/3	14/-	17/-	18/6	24 -	29/-
Amber and Actinic, Globe Stopp'd	19/-	20/-	20/9	21/6	22/6	25/6	29/6	33/-	36/6	39/-	47/-	52/-

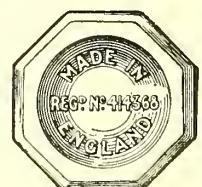
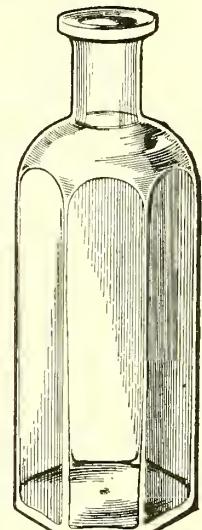
Compare these quotations with the prices of other makes, especially for the stoppered bottles.

The “Ideal” Bottles are stoppered in the same factory as they are made in, which is the only way to get the best stoppering at the lowest prices.

The “Ideal” Bottle can be obtained from Messrs. Maw's, Evans Sons Lescher & Webb, Sangers', May Roberts, J. F. Macfarlan & Co. (Edinburgh), or any other of the leading Wholesale Houses.

MADE IN ENGLAND.

Cut this out and file for Reference.



INDEX TO ADVERTISEMENTS IN THIS ISSUE.

HEAD OFFICE: 42 Cannon Street, London, E.C. Telegraphic Address: "CHEMUS LONDON."
BRANCH OFFICES: MELBOURNE, SYDNEY, AND ADELAIDE, AUSTRALIA

Telephone No. 852, Bank.

Page	Page	Page	Page
Aerators, Ltd. 25	Epps, J., & Co. 77	Kay Bros., Ltd. 65	Sanitas Co., Ltd. The ...Text 964
Alcock Mfg. Co. 69	Erasmic Co., Ltd. 15	Keane, T. 42	Sankyo & Co. 65
Allen & Hanburys, Ltd. ....Cover	Eson 65	Lalor, Dr. 56	Schimmel & Co. 58
Allen, Stafford & Sons, Ltd. 29	Evans, Gray & Hood 76	Lautier Fils 31	Schliemann's Oil and Ceresine Co., Ltd. 27
Alliance Drug & Chemical Co. 61	Evans Sons Lescher & Webb, Ltd. 5	Leeds College of Pharmacy 38	Schnoller & Bompard 33
American Animal Therapy Co., Ltd. 62	Fairchild Bros. & Foster 19	Lescol Pfmy Co. 35	School of Pharmacy 38
Bailey, W. H., & Son 69	Farina, J. M. 28	Leslies, Ltd. 73	Schutze, F., & Co. 68
Baiss Bros. & Stevenson, Ltd. 21	Farmer & Co. 72	Levermore, A., & Co. 72	Scrub & Co., Ltd. 36
Barker, F. H. 73	Faulding, F. H., & Co. 74	Lherminie & Cie. 31	Shaw & Co. 30
Barnett & Foster 78	Fentiman, A. G. 72	Linton, Hubbard & Andrew 64	Shipkoff & Co. 30
Beetham, M., & Son 4	Fentiman, A. J., & Co. 73	Liverpool Lint Co. 70	Shirley Bros., Ltd. 36
Bell, Hills & Lucas, Ltd. 32	Field, C. W. 27	Lofthouse & Saltmer 76	Singleton & Cole, Ltd. 73
Benger's Food, Ltd. 50	Fink, F., & Co. 72	London College of Chemistry 38	Smith, B. A., & Co. 56
Bennett, E., & Son, Ltd. 42	Fletcher, Fletcher & Co., Ltd.	Londoner & Co., Ltd. 20	Smith, Dr. 65
Bennett, Sons & Shears, Ltd. 77	Ford, Shapland & Co. Text 964	Macfarlan, J. F., & Co. 12	Smith, J. H., & Co. 46
Berde & Fish Col. Supp.	Fulham Pottery & Cheavin Filter Co., Ltd. 40	Manchester College of Pharmacy 39	Smith, T. H., & H., Ltd. 16
Berkeleld Filter Co., Ltd. 74	Galen Mfg. Co., Ltd. 68	Maw, S., Son & Sons 44	Smith, W. H., & Son ....Text 964
Berliner, Arthur 70	Gardner, W., & Sons (Gloucester), Ltd. 72	Mawson, & Co. 72	Solport Bros. 71
Birmingham and Midland Coll. 39	Gathergood, Dr. B. W. 77	May, Roberts & Co., Ltd. ....Cover	South London School of Pharmacy 38
Blackie, R. 55	Gerhardt, C. F. 72	Melrose-Drover, Ltd. 74	South of England Sch. of Phar. 38
Boehm, F., Ltd. 62	Gimber, W., & Son 71	Merck, E. 57	Spatula Publishing Co. 39
Botwright & Grey 41	Glasgow School of Pharmacy 39	Millar, A., & Co., Ltd. 48	Standard Tablet & Pill Co. ....Cover
Bowling & Son 42	Goodall, Backhouse & Co. 17	Mills, H. 42	Stedman, Dr. 72
Bradley & Bourdas 64	Guy's Tonic Co. 63	Mitchell, N. W., & Sons, Ltd. 32	Stevenson & Sons, Ltd. 73
Brand & Co., Ltd. 76	Harker, Stagg & Morgan, Ltd. 30	Montgomery & Co., Ltd. 59	Sthamer, Dr. R. 27
Brett & Co. Col. Supp.	Harvey & Co., Dublin, Ltd. 47	Morris, A. G. 58	Stokes, F. J., Machine Co. 77
British DiaMalt Co. 48	Henry, T. & W. 64	National Cash Register Co., Ltd. 43	Taylor & Co. 73
Bristol-Myers Co. 27	Hericide Co., The 36	Newson, C. 70	Thompson & Capper 77
Brunner, Mond & Co., Ltd. 52	Hewlett, C. J., & Son, Ltd. 14	Nichols Chemical Co., Ltd. 57	Todd, The A. M. Co., Ltd. 30
Burge, Warren & Ridgley, Ltd. 23	Hicks, J. 40	Northern College of Pharmacy 38	Tompkins, J., Ltd. 72
Burrough, J., Ltd. Text 964	Hoffmann-La Roche, Ltd. 60	Nottingham School of Pharm. 39	Tye, J., & Son 71
Burroughs, Welcome & Co. 49	Holzmuller & Schmidt 47	Odol Chemical Works 51	Tyler, T., & Co., Ltd. 63
Bush, W. J., & Co., Ltd. 26	Hornier & Sons 76	Oppenheimer, Son & Co., Ltd. 20	Van Abbott & Sons 72
Butterworth & Co. 48	Hughes, E. Griffiths 24	Orridge & Co. Col. Supp.	Vibert, F. 32
Buvo, Ltd. 76	Hull Oil Manfgy. Co., Ltd. 60	Papier Pondré, Ltd. 34	Viscoose Development Co., Ltd. 36
Callard & Co. 72	Huntley, Boorne & Stevens, Ltd. 73	Phillips Chem. Co., The Chas. H. Text 964	Wardale & Co. 73
Calvert, F. C., & Co. 34	Hutchinson Co., The 68	Pindar & Co. 72	Warne, W., & Co., Ltd. 71
Chesebrough Mfg. Co. 50	Ichthyol Co., The 58	Poths, H., & Co. 22	Washington Chemical Co., Ltd. 64
Chiris, A. 31	Ideal Bottle 6	Potter & Clarke, Ltd. 66	Wattenbach, Oscar 72
Christy, T., & Co. 50 & 73	Ingram & Royle, Ltd. 75	Quelch & Co. 35	Wehner, A. S., & Co. 20
Coleman & Co., Ltd. 74	International Chem. Co. 72	Raines & Co. 53	Westminster College of Pharmacy 38
Compagnie Morana 33	Iron-Ox Remedy Co., Ltd. 54	Randall & Son 32	White, A., & Sons 63
Congreve, G. T. 65	Isaacs, I., & Co. 71	Ransom, W., & Son 33	Whitehead & Bros., Ltd. 70
Cox, A. H., & Co., Ltd. 13	Jeynes' Sanitary Compounds, Co., Ltd. 46	Raphael's, Ltd. 41	Whittaker, Arthur 30
Curry, H. 63	John, H. C. 45	Reducine Co., The 47	Wilcox Jozneau & Co. ....Text 964
Daggett & Ramsdell 34	Johnsen & Jorgensen, Ltd. 67	Reitmeyer & Co. 31	Willows, Francis, Butler & Thompson, Ltd. 64
Daisy, Ltd. 18		Resinol Chemical Co. 53	Wilson Vet. Med. Mfg. Co., Ltd. 73
Darter, Wilkinson & Co. 32		Riedel Co., The J. D. 56	Wood, V. 68
Davies Sons & Co. 11		Riley Bros., Ltd. 77	Woods, W., & Son 36
Day & Sons (Crewe), Ltd. 62		Robare's Aureoline 64	Wright, Layman & Umney, Cover
Duncan, Flockhart & Co. 55		Rogers & Co. 41	Youldon, E., Ltd. 71
Dunlop Rubber Co., Ltd. 69		Saccharin Corporation, Ltd. 75	Zahradnik, J. 73
Ecsolent Compounds, Ltd. 72		Salle, H., & Co. 65	
Edwards' Hariene Co. 37			

BUYERS' GUIDE FOR GOODS ADVERTISED IN THE C. & D.

ACETIC ACID

Boehm, Fredk., Ltd.
Crown Chemical Works, Ltd.

ADVERTISING IDEAS

Allison, J. R. B.
Degen, F. A.

Slack, Bernard

Smith, W. H., & Son

AER.-WATER MACHINERY

Barnett & Foster
British Automatic Aerators, Ltd.
(See also SODA FOUNTAINS)

AER.-WATER MATERIALS

Brunner, Mond & Co.

Bush, W. J., & Co., Ltd.

Hay, William, Ltd.

Stevenson & Howell, Ltd.

Sthamer, Dr. Richard

(See also ESSENCES, SOL.)

AERATED WATERS

Camwal, Ltd.

Idris & Co., Ltd.

Jewsbury & Brown

AGENCIES, COLONIAL, &c.

Fanlding, F. H., & Co.

Lennon, Ltd.

Peake, Allen & Co.

Sankyo & Co

AIR CUSHIONS

Hutchinson Co.

ANANTO

Fullwood, R. J., & Bland

Tomlinson & Hayward, Ltd.

ALMANACKS

Townsend, J., & Sons

ALKALOIDS

Boehringer, C. F., & Soehne
Boehringer, C. H., Sohn
Hoffmann-la Roche, Ltd.
Howards & Sons, Ltd.

Macfarlan, J. F., & Co.

Madoery, H.

Morson, T., & Son

Salle, H., & Co.

Smith, T. & H., Ltd.

Zimmermann, C., & Co.

AMMONIA AND SALTS

Brown & Blackburn
Nichols Chemical Co., Ltd.
Scrub & Co., Ltd.

White, A., & Sons

ANÆSTHETICS

Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.

Smith, T. & H., Ltd.

Zimmermann, C., & Co.

(See also CHLOROFORM)

ANIMAL THERAPY PRODUCTS

American Animal Therapy Co.

ANTIMONY AND ITS SALTS

May & Baker Ltd

White, A., & Sons

ANTI-OPIUM CURE

Gerhardt, C. F.

ANTI-RHEUMATIC RINGS

Burge, Warren & Ridgley, Ltd.

ARTIFICIAL LIMBS

Haywood, J. H., Ltd.

BALANCES

Parnall & Sons, Ltd.
Maw, S., Son & Sons

Southall Bros. & Barclay, Ltd.

BALLROOM FLOOR POLISH

Lofthouse & Saltmer

Woolley, Jas., Sons & Co., Ltd.

BAROMETERS

Darton, F., & Co.

BATH CABINETS

Riley Bros., Ltd.

BATH GLOVES

Hovenden, R., & Sons, Ltd.

Schutze, F., & Co.

BATHING CAPS

Bush, H. W., & Co., Ltd.

Maw, S., Son & Sons

Schutze, F., & Co.

BINOCULARS

Darton, F., & Co.

Kaphaels, Ltd.

BISMUTH SALTS

Howards & Sons, Ltd.

May & Baker, Ltd.

Morson, T., & Son

Reitmeyer & Co.

Tyrer, T., & Co., Ltd.

White, A., & Sons

BOOKS AND MAGAZINES

Ilford "Photo Manual."

Lewis, H. K.

Martindale's "Extra Phar."

Spatula Publishing Co.

Squire's "Companion"

BODY BELTS.

Haywood, J. H., Ltd.

BOTANIC DRUGISTS

Newball & Mason

Potter & Clarke, Ltd.

BOTTLES

Barnett & Foster

Brefit, E., & Co., Ltd.

Bush, H. W., & Co., Ltd.

Chemist's Co-operative Wholesale

Holzmuller & Schmidt

"Ideal" Bottle,

Isaacs, I., & Co.

Johnsen, & Jorgensen, Ltd.

Kilner Bros., Ltd.

Lang, Jules, & Son

Maw, S., Son & Sons

May, Roberts & Co.

Poths, H., & Co.

Toogood, W., Ltd.

Youldon, E., Ltd.

BOXES

Ayrton, Saunders & Co., Ltd.

Brefit, E., & Co., Ltd.

Estes, E. B., & Sons

Ford, Shapland & Co.

Harrison & Waide

May, Roberts & Co.

Robinson & Sons, Ltd.

Rogers & Co.

Stevenson, H., & Sons, Ltd.

Stipendum Stopper Co.

BREAST RELIEVERS

Maw, S., Son & Sons.

BROMINE AND BROMIDES

Howards & Sons, Ltd.
Merck, H.

BRONCHITIS KETTLES

Maw, S., Son & Sons

BRUSHES

Bidwell, Bidwell & Co.
Hovenden, R., & Sons, Ltd.
International Distributing Co.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.
Myntson Co.

BUTTER COLOURING

Fulwood, R. J., & Bland
Oldfield, Pattinson & Co.
Tomlinson & Hayward, Ltd.

CACHETS

Christy, T., & Co.

CAMOMILES

Boehm, F., Ltd.
Carmichael, F. J., & Co.

CAMPHOR

Alliance Drug & Chemical Co.
Chemist's Co-operative Wholesale
Howards & Sons, Ltd.
May & Baker, Ltd.

CAPPING MATERIALS

Viscose Co., Ltd.

CAPS FOR BOTTLES, &c.

Darter, Wilkinson & Co.
Viscose Co., Ltd. (self-fixing)

CAPSULES

Allen & Hanburys, Ltd.
American Animal Therapy Co.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Davies, Sons & Co.
Denoual, J., & Co.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd.
Lloyd, T. Howard, & Co.
Mason, Bros., & Chapman.
Mawson & Co.
Parke, Davis & Co.
Tye, J., & Son
Wand Mfg. Co.
Wander, A.
Warwick Bros.
Woolley, J., Sons & Co.

CAPSULING MACHINE

Melin, C., & Co.

CARBOLIC ACID

Burt, Boulton & Haywood, Ltd.
Calvert, F. C., & Co.
Chemist's Co-operative Wholesale
Hoffmann-La Roche, Ltd.
Hollingshurst & Co.
(See also DISINFECTANTS)

CARBOS

Breftit, E., & Co., Ltd.
Toogood, Wm., Ltd.

CARTONS

Ford, Shapland & Co.
Harrison & Waide

CASH TILLS

National Cash Register Co., Ltd.
O'Brien, T.

CASTOR OIL

Boehm, F., Ltd.
Carmichael, F. J., & Co.
Hull Oil Mfg. Co., Ltd.

CAUSTIC SODA

Brunner, Mond & Co., Ltd.

CEMENTS

Kay Bros., Ltd.

CHALK, PRECIPITATED

Levermore, A., & Co.
Mamford, G. S. & Sons
Nicholas Chemical Co., Ltd.
Sturge, John & E.

CITRIC ACID AND CITRATES

British Drug Houses, Ltd.
Howards & Sons, Ltd.
Morson, T., & Son
Sturge, John & E.

CHAMOIS

Internl. Sponge Importers
Kent, G. B., & Sons, Ltd.
Solport Bros.

CHEMICAL MFRS.

Boehringer, C. F. & Seehne
Braunwell, E., & Son
British Drug Houses, Ltd.
Branner, Mond & Co., Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb
Hoffmann-La Roche, Ltd.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Merck, E.
Morson, T., & Son
Reitmeyer, & Co.
Sohimmel & Co.

CHEMICAL MFRS. (continued)

Smith, T. & H., Ltd.
Sthamer, Dr. Richard
Sturge, John & E.
Tyser, T., & Co., Ltd.
Washington Chemical Co.
White, A., & Sons

CHEMISTS, MFG.

Allen, Stafford, & Sons, Ltd.
Ayerton, Sanderson & Co.
Bayer Co., Ltd.
Beetham, M., & Son
Bell, John, Hills & Lucas, Ltd.
Blackie, R.
Brady & Martin, Ltd.
British Drug Houses, Ltd.
Burroughs Wellcome & Co.
Bush, W. J., & Co., Ltd.
Davenport, J. T., Ltd.
Duncan, Flockhart & Co.
Evans Sons Lescher & Webb, Ltd.
Fletcher, Fletcher & Co.
Geiger & Brann
Hay, William, Ltd.
Hewlett, C. J., & Son
Lloyd, T. Howard, & Co.
Lorimer & Co., Ltd.
Madocry, H.
Martindale, W.
Newball & Mason
Newbery, F., & Sons, Ltd.
Oldfield, Pattinson & Co.
Oppenheimer, Son & Co.
Parke, Davis & Co.
Potter & Clarke
Randall & Son, Ltd.
Ransom, W., & Son
Salle, H., & Co.
Sankyo & Co.
Shirley Bros., Ltd.
Southall Bros. & Barclay, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stevenson & Howell, Ltd.
Thompson & Capper
Tidman & Sons, Ltd.
Tolkien, C., & Co.
Wand Mfg. Co.
(See also WHOLESALE)

CHEST PROTECTORS

May, Roberts & Co.

CHLORIDE OF LIME

Brunner, Mond & Co., Ltd.

CHLOROFORM

Duncan, Flockhart & Co.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Morson, T., & Son
Smith, T. & H., Ltd.

CIGARS AND CIGARETTES

Hovenden, R., & Sons, Ltd.
Singleton & Cole, Ltd.

CLINICAL THERMOMETERS

Burge, Warren & Ridgley, Ltd.
Bush, H. W., & Co., Ltd.
Hicks, J. J.

Maw, S., Son & Sons

Newbery, F., & Sons, Ltd.

Perkin, Son, & Co., Ltd.

Zeal, G. H.

CLOTH BALLS

O'Neil Zetts & Co.

COAL TAR SPECIALITIES

Wright, Layman & Umney, Ltd.

COCOA

Cadbury Bros., Ltd.
Frame Food Co.

COLD CREAM.

Barnett & Co.

COLOURS, BEVERAGE, &c.

Stevenson & Howell, Ltd.
(See also DAIRY ADJUNCTS)

COMBS

Hovenden, R., & Sons, Ltd.
Kent, G. B., & Sons, Ltd.
Maw, S., Son & Sons
May, Roberts & Co.

COD-LIVER OIL

Albrethson, A., & Co.
Allen & Hanburys, Ltd.
Alliance Drug & Chem. Co.
Baiss Bros. & Stevenson, Ltd.
British Drug Houses, Ltd.
Devold, Peder
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Oldfield, Pattinson & Co.
Southall Bros. & Barclay, Ltd.
Woolley, Jas., Sons & Co., Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, A. & M.

CONDENSERS

Bennett, E., & Son, Ltd.

CORN CURE

Outem Corn Remedy Co.

CORRUGATED PAPER

Eburie Paper Co.

CORKS

Ayerton, Sanderson & Co.

Mitchell, N. W., & Sons, Ltd.

COUNTER ADJUNCTS

Evens Sons Lescher & Webb, Ltd.

COUNTER SPECIALTIES

Allen & Hanburys, Ltd.

British Drug Houses, Ltd.

Hewlett, C. J., & Son

Newbery, F., & Sons, Ltd.

Southall Bros. & Barclay, Ltd.

CREAM OF TARTAR

British Drug Houses, Ltd.

CREOSOTE

Baiss Bros. & Stevenson, Ltd.

Burt, Boulton & Haywood

Morson, T., & Son

CREPE BANDAGE

Gimber, W., & Son

Norwich Crêpe Co. (1856), Ltd.

Wood, Vincent

CYANIDES

May & Baker, Ltd.

DAIRY SPECIALTIES

Fullwood, R. J. & Bland

Oldfield, Pattinson & Co.

DEMIGJOHNS

Breftit, E., & Co., Ltd.

DENTAL MECHANICS

Barker, Fred. H.

Fentiman, A. G.

Fentiman, A. J., & Co.

Halder, E. C.

Taylor & Co.

Wardale & Co.

DENTAL ANAESTHETIC

Smith, Dr. E. J.

DENTIFRICES

Beecham, T.

Beiersdorf, P., & Co.

Bell, John, Hills & Lucas, Ltd.

Blackie, R.

Burroughs Wellcome & Co.

Calvert, F. C., & Co.

Christy, T., & Co.

Cook, E., & Co., Ltd.

Encryl, Ltd.

Hall & Ruckel

Jewsbury & Brown

Lambert Pharmacal Co.

McKesson & Robbins

Maw, S., Son & Sons

Newbery, F., & Sons, Ltd.

Odlol Chemical Works

Rowland, A., & Sons

Standard Tablet & Pill Co.

Woods, W., & Son

Woolley, J., Sons & Co., Ltd.

DEXTRINE

Fink, F., & Co.

DIABETIC BREAD AND FOOD

Callard & Co.

Van Abbott, G., & Sons

DIGESTIVE PRODUCTS

Armour & Co., Ltd.

Benger's Food, Ltd.

Fairchild Bros. & Foster

Parke, Davis & Co.

Squire & Sons

Zimmermann, C., & Co.

DISINFECTANTS

Baiss Bros. & Stevenson, Ltd.

Burt, Boulton & Haywood, Ltd.

Calvert, F. C., & Co.

Cendy & Mitchell, Ltd.

Cook, E., & Co., Ltd.

Dalmas, A. de St., & Co.

Edwards, W., & Son

Jeyes' Sanitary Compounds, Ltd.

Kay Bros., Ltd.

Lambert Pharmacal Co.

Sanitas Co., Ltd.

Tomlinson & Hayward, Ltd.

Willows, Francis B. & T.

Wright, Layman & Umney, Ltd.

Zimmermann, C., & Co.

DOSE REGULATORS

Maw, S., Son & Sons

Reuter, R. J.

DRUGGISTS' SUNDRIES

Ayton, Saunders & Co., Ltd.

Barclay & Sons, Ltd.

Berliner, Arthur

Burge, Warren & Ridgley

Bush, H. W., & Co., Ltd.

Chemist's Co-operative Wholesale

Christy, T., & Co.

Edwards, W., & Son

Evans Sons Lescher & Webb, Ltd.

Hewlett, C. J., & Sons

Hovenden, R., & Sons, Ltd.

Maw, S., Son & Sons

May, Roberts & Co.

Newbery, F., & Sons, Ltd.

Poths, H., & Co.

Renter, R. J.

Sangers'

Schutze, F., & Co.

Shirley Bros., Ltd.

Solport Bros.

Southall Bros. & Barclay, Ltd.

Tidman & Son, Ltd.

Toogood, W., Ltd.

Viscose Co., Ltd.

Wattenbach, O.

Wood, Vincent

Wolley, J., Sons & Co.

DRUGS, CRUDE

Carmichael, F. J., & Co.

Gathergood's Exor

Hornier & Sons

Hymans, H., & Co.

Potter & Clarke, Ltd.

Ransom, W., & Son

Salle, H., & Cie.

DRYSALTERIES

Harker, Stagg & Morgan, Ltd.

DYES

Judson, D., & Son

Whitaker & Co. (Hat)

EAR MOPS.

Cooper, R. H., & Co.

EAU DE COLOGNE

Farina, J. M.

Farina, J. M. (No. 4)

Fickus, Contrainay & Co.

McCracken, J. & R.

Schutze, F., & Co.

EDUCATIONAL INSTITUTIONS

Bath and West of England College

of Pharmacy

British Optical Institute

Edinburgh Central School of

Pharmacy

Glasgow School of Pharmacy

Leeds College of Pharmacy

Liverpool School of Pharmacy

London College of Pharmacy

Manchester College of Pharmacy

Mutter's (Sn. Lond.) School of

Pharmacy

North of England School of

Pharmacy

Northern College of Pharmacy

Nottingham School of Pharm.

Pharmaceutical Society's School

of Pharmacy

South of England College of

Pharmacy

EFFERVESCENT PREPS.

Allen & Hanburys, Ltd.

Bishop, Alfred, Ltd.

Blackie, R.

Bristol-Myers Co.

Cox, A. H., & Co., Ltd.

Evans Sons Lescher & Webb, Ltd.

Goodall, Backhouse & Co.

Howard & Sons, Ltd.

Kutnow, S., & Co., Ltd.

Lorimer & Co., Ltd.

Newhall & Mason

EMULSIONS, COD - LIVER OIL, ETC.	FOODS, SPECIAL (continued)	INSECT POWDER	MALT EXTRACT AND PREPS
Allen & Hanbrye, Ltd. Ayrton, Saunders & Co., Ltd. Baiss Bros. & Stevenson, Ltd. Blackie, Robert British Drug Houses, Ltd. Faulding, F. H., & Co. Harker, Stagg & Morgan, Ltd. Lorimer & Co., Ltd. Oldfield, Pattinson & Co. Parke, Davis & Co. Scott & Bowne, Ltd. Tolkine, C., & Co. Woolley, Jas., Sons & Co.	Menley & James, Ltd. Natural Food Co., Ltd. Wander, A.	Boehm, F., Ltd. Smith, E. A., & Co.	Allen & Hanbrys, Ltd. Blackie, R. British DiaMalt Co. Burroughs Wellcome & Co. Evans Sons Lesoher & Webb Hewlett, C. J., & Son Lorimer & Co., Ltd. Montgomerie & Co., Ltd. Oppenheimer, Son & Co., Ltd. Paine & Co., Ltd. Southall Bros. & Barclay, Ltd. Tolkien, C., & Co. Woolley, Jas., Sons & Co., Ltd. Wright, Layman & Umney
ENEMAS	FORMALDEHYDE	IODINE AND IODIDES	MEASURFS
Bailey, W. H., & Son Burge, Warren & Ridgley Davel Rubber Co. Maw, S., Son & Sons Toogood, W., Ltd. Warne, W., & Co., Ltd.	Burt, Boulton & Hayward Aerators, Ltd.	Howards & Sons, Ltd. Morson, T., & Son	Bush, H. W., & Co., Ltd.
ENTOMOLOGIC APPARATUS	FRUIT CRYSTALS	ITROSYL	MEAT EXTRACTS
Watkins & Doncaster	Aerators, Ltd.	Fletcher, Fletcher & Co.	Armour & Co., Ltd. Brand & Co., Ltd. Buvo, Ltd.
EPSOM SALTS	FRUIT SYRUPS	JARS AND POTS	MERCURIALS
Howards & Sons, Ltd.	Idris & Co., Ltd.	Breiff, E., & Co., Ltd. Bush, H. W., & Co., Ltd. Christy, T., & Co. Johnsen & Jorgensen, Ltd. Kilner Bros., Ltd. Lang, Jules, & Son Maw, S., Son & Sons Poths, H., & Co. Reuter, R. J. Stipendum Stopper Co. Toogood, W., Ltd.	Howards & Sons, Ltd. May & Baker, Ltd. Merck, E. Tyrrer, T., & Co., Ltd.
ESSENCES, CONCRETE	FULLER'S EARTH	LACTIC FERMENTS	METEOROLOGICAL SETS
Lautier Fils Murray, O., & Co., Ltd. Sobmoller & Bompard	Mnford, G. S., & Sons	Allen & Hanbrys, Ltd. Cox, Arthur H., & Co., Ltd. Davies, Sons & Co. Martindale, W. Parke, Davis & Co. Standard Tablet Co. Wilcox, Jozea & Co.	Darton, F., & Co.
ESSENCES, SOL, AND FRUIT	GLAUBER'S SALT	LANOLINE	METHYLATED SPIRIT
Alliance Drug & Chem. Co. Barnett & Foster Bush, W. J., & Co., Ltd. Evans Sons Leasher & Webb Hay, Wm., Ltd. Lautier Fils London Essence Co. Lorimer & Co., Ltd. Newball & Mason Spener, J., Son & Co. Stevenon & Howell, Ltd. Zimmermann, A. & M.	Braunwell, E., & Son Howards & Sons, Ltd.	Burroughs Wellcome & Co. Christy, T., & Co.	Burrough, J., Ltd. Preston's Liverpool Distillery Randall & Son, Ltd.
ETHERS	GLYCERIN	LARD	MILK APPARATUS
Bais Bros. & Stevenson, Ltd. Maofarlan, J. F., & Co. May & Baker, Ltd. Tyrrer, T., & Co., Ltd. White, A., & Sons	Boehm, F., Ltd. Price's Patent Candle Co.	Chemist's Co-operative Wholesale Ewen, J., & Sons	Zimmermann, C., & Co.
EUCALYPTUS OIL	GLYCERIN PLANT	LIME JUICE AND CORDIAL	MILK SUGAR
Bais Bros. & Stevenson, Ltd. British Drug Houses, Ltd. Hymans, H., & Co.	Forshaw, E., & Son, Ltd.	Evans Sons Lesoher & Webb Goodall, Baokhouse & Co. Idris & Co., Ltd.	Zimmermann, C., & Co.
EXTRACT OF HERBS	GLYCEROPHOSPHATES	LINSEED, CRUSHED, ETC.	MINERAL WATERS AND SALTS
Newball & Mason Potter & Clark	Pointel & Girard	Allen, Stafford, & Sons Mumford, G. S., & Sons	Apollinaris Co., Ltd. British Drug Houses, Ltd. Hughes, E. Griffiths Ingram & Royle, Ltd. Vichy (State Springs)
EXTRACTS (MEDICINAL)	GOLD PAINT	LINTS	MIRRORS, TOILET
Allen, Stafford, & Sons, Ltd. Chemist's Co-operative Wholesale Gathergood's Exor. Hewlett, C. J., & Son Parke, Davis & Co. Ransom, W., & Son (See also WHOLESALE DRUGGISTS)	Judson, D., & Son	Liverpool Lint Co. Robinson & Sons, Ltd. Vernon & Co., Ltd.	Sangers
FEEDING BOTTLES	GRINDERS	LIQUORICE JUICE	MOTOR GOOGLES
Breiff, E., & Co., Ltd. Hovenden R., & Sons, Ltd. Kilner Bros., Ltd. Maw, S., Son & Sons Sangers' Southall Bros. & Barolay, Ltd.	Allen, Stafford, & Sons, Ltd. Goodall, Baokhouse & Co. Willows, Francois, B. & T.	Boehm, F., Ltd. British Drug Houses, Ltd. Carmichael, F. J., & Co. Evans, Gray & Hood Evans Sons Lesoher & Webb, Ltd. Horner & Sons Jackson, E. E. Mumford, G. S., & Sons	Darton, F., & Co.
FILTERS (WATER)	HAT DYES	LIQUORS, CONC., ETC.	NAPHTHAS
Berksfeld Filter Co., Ltd.	Whitaker & Co.	Allen, Stafford, & Sons, Ltd. Fletch, Fletch & Co.	Burt, Boulton & Hayward
FLESH GLOVES	HAT RENOVATORS	LIQUORS, CONC., ETC.	OILS, ESSENTIAL
Sangers'	Christy, T., & Co.	Allen, Stafford, & Sons, Ltd. Fletch, Fletch & Co.	Allen, Stafford, & Sons, Ltd. Alliance Drug & Chem. Co. Bush, W. J., & Co., Ltd.
FLYCATCHERS	HEATING APPARATUS	LINSEED, CRUSHED, ETC.	CHIRIS, ANTOINE
Deansmere Manfg. Co. Ford, Sheapland & Co. Kay Broe., Ltd. Smith, J. H., & Co. Tunbridge & Wright	Clark, S., & Co. Wright, John, & Co.	Allen, Stafford, & Sons, Ltd. Fletch, Fletch & Co.	Evans Sons Lesoher & Webb, Ltd.
FOODS, INFANTS'	HERBS	LINTS	HORNER & SONS
Allen & Hanbrys, Ltd. Benger's Food, Ltd. Frame Food Co., Ltd. Lofthouse & Saltmer Natural Food Co., Ltd. Willow, Francois, B. & T.	Carmichael, F. J., & Co. Potter & Clarke	Liverpool Lint Co. Robinson & Sons, Ltd. Vernon & Co., Ltd.	Jackson, J., & Co.
FOODS, SPECIAL	HOMEOPATHIC MEDICINES	LIQUORICE JUICE	LAUTIER FILS
Allen & Hanbrys, Ltd. Bayer Co., Ltd. Benger's Food, Ltd. Brand & Co., Ltd. Brnt, C. J. Bvno, Ltd. Callard & Co. Fairchild Bros. & Foster Frame Food Co., Ltd.	Ashton & Parsons, Ltd. Epps, James, & Co. Keene & Ashwell, Ltd. Leath & Ross	Boehm, F., Ltd. British Drug Houses, Ltd. Carmichael, F. J., & Co. Evans, Gray & Hood Evans Sons Lesoher & Webb, Ltd. Horner & Sons Jackson, E. E. Mumford, G. S., & Sons	London Essence Co. Mühlethaler, Th., Ltd. Pasquale, S. F. de, & Fratelli Poppelreuter, W. Ransom, W., & Son Scheller, Emil, & Co. Scbimmel & Co. Sobmoller & Bompard Seymour, J. Spencer, J., Son & Co. Stevenson & Howell, Ltd. Todd, A. M., Co. Whittaker, Arthur Wright, Layman & Umney Zimmermann, A. & M.
FOODS, SPECIAL (continued)	HOT-WATER BOTTLES	LIQUORS, CONC., ETC.	OILS, FATTY, ETC.
	Berliner, Arthur Burge, Warren & Ridgley Dunlop Rubber Co., Ltd. Fulbam Pottery & Cheavin Filter Co., Ltd. Galen Mfg. Co., Ltd. Hntobinson Co. Maw, S., Son & Sons May, Roberts & Co. Southall Bros. & Barclay Tompkins, James, Ltd. Wood, Vincent	Allen, Stafford, & Sons, Ltd. Fletch, Fletch & Co.	Allen, Stafford, & Sons, Ltd. Price's Patent Candle Co. Schleimann's Oil & Ceresine Co. Smith, B. A., & Co.
	HYDROGEN PEROXIDE	LINSEED, CRUSHED, ETC.	OILS, FATTY, ETC.
	May & Baker, Ltd. Sanitas Co., Ltd. Tyler, T., & Co., Ltd.	Allen, Stafford, & Sons, Ltd. Fletch, Fletch & Co.	Allen, Stafford, & Sons, Ltd. Price's Patent Candle Co.
	HYPOPHOSPHITES	LINTS	OILS, MINERAL
	May & Baker, Ltd. Tyrer, T., & Co., Ltd.	Liverpool Lint Co. Robinson & Sons, Ltd. Vernon & Co., Ltd.	Carmichael, F. J., & Co. Price's Patent Candle Co.
	INHALERS	LIQUORICE JUICE	OINTMENTS
	Christy, T., & Co. Sangers'	Boehm, F., Ltd. British Drug Houses, Ltd. Carmichael, F. J., & Co. Evans, Gray & Hood Evans Sons Lesoher & Webb, Ltd. Horner & Sons Jackson, E. E. Mumford, G. S., & Sons	Blackie, R. Chemist's Co-operative Wholesale Oldfield Pattinson & Co.
	INK	LIQUORS, CONC., ETC.	OPTICAL GOODS
	Bewley & Draper, Ltd. Hiokisson, A. B.	Allen, Stafford, & Sons, Ltd. Fletch, Fletch & Co.	Botwright & Grey Darton, F., & Co. Maw, S., Son & Sons Newbery, F., & Sons, Ltd. Nitache & Günther Raphael's, Ltd.
	INSECTICIDES	LIQUORS, CONC., ETC.	OTTO OF ROSE
	Christy, Thos., & Co. Smith, B. A., & Co. Tomlinson & Hayward, Ltd. Vaporite-Strawson Co., Ltd.	Allen, Stafford, & Sons, Ltd. Fletch, Fletch & Co.	Bontcheff & Kidoff Reitmeyer & Co. (synthetic) Scheller, Emil & Co. Seraphimoff, S., & Co. Sipkoff & Co.

OPTICAL INSTRUCTION

British Optical Institute

ORANGE WINE

Melrose-Drover Co., Ltd.

PACKED GOODS

(See WHOLESALE)

PALATINOIDS

Oppenheimer, Son & Co.

PASTILLES

Allen & Hanburys, Ltd.

Asche, C. F., & Co.

Burroughs Wellcome & Co.

Denoual, J., & Co.

Epps, James, & Co.

Evans Sons Lescher & Webb

Meggeson & Co., Ltd.

Warrick Bros.

PATENT AGENT

Barker, R. W.

PERFUMES

Allen & Hanburys, Ltd.

Barolay & Sons, Ltd.

Bronnley, H., & Co., Ltd.

Bush, W. J., & Co., Ltd.

Christy, T., & Co.

Cubit, Naef & Co.

Erasmio Co., Ltd.

Evans Sons Lescher & Webb, Ltd.

Hewlett, C. J., & Son

Hovenden, R., & Sons, Ltd.

Lescol Perfumery Co.

McCracken, J. & R.

Maw, S., Son & Sons

Morison, G. H., & Co., Ltd.

Newberry, F., & Sons, Ltd.

Quelch, H. C., & Co.

Southall Bros. & Barclay

Spencer, J., Son & Co.

To-Kalon Mfg. Co., Ltd.

Warrick Bros.

West, T., & Son

PERFUME MATERIALS

Bontcheff & Kidoff

Bush, W. J., & Co., Ltd.

Chiris, Antoine

Compagnie Morana

Lautier fils

Mühlebaler, Th., Ltd.

Murray, O., & Co., Ltd.

Soehler Emil & Co.

Schimmel & Co.

Sibkoff & Co.

Spencer, J., Son & Co.

Zimmermann, C., & Co.

PESARIES

Brige, Warren & Ridgley

Rendell, W. J.

PETROLEUM EMULSION

British Drug Houses, Ltd.

PETROLEUM JELLY

Carmichael, F. J., & Co.

Chesebrough Mfg. Co.

Schleimann's Oil & Ceresine Co.

PHOTO. CHEMICALS

Boehringer, C. F., & Soehne

Burroughs Wellcome & Co.

Merck, E.

PHOTO. ENLARGERS, PRINTERS, &c.

Express Developing Co.

Halifax Photographic Co.

PHOTO. GOODS

Barclay & Sons, Ltd.

Darton, F., & Co.

Evans Sons Lescher & Webb

Halifax Photographic Co.

Ilford, Ltd.

Lennon, Ltd.

May, Roberts & Co.

Newberry, F., & Sons, Ltd.

PILL MAKERS

Allen & Hanburys, Ltd.

Asche, C. F., & Co.

Bishop, Alfred, Ltd.

British Drug Houses, Ltd.

Cox, A. H., & Co., Ltd.

Davies, Sons & Co.

Evans Sons Lescher & Webb, Ltd.

Hewlett, C. J., & Son

Howards & Sons, Ltd.

Lloyd, T. Howard, & Co.

McKesson & Robbins

Parke, Davis & Co.

Standard Tablet & Pill Co.

Wand Mfg. Co.

Woolley, J., Sons & Co., Ltd.

PRINTERS

Dudley & Co.

Ford, Shapland & Co.

Harrison & Waide

Parkes, John, & Co.

Townsend, J., & Sons

PLASTERS

Allcock Mfg. Co.

Berliner, Artur

Beiersdorf, P., & Co.

Dalmas A. de St., & Co.

Leslies, Ltd.

Maw, S., Son & Sons

Solport Bros.

POLISHES (VARIOUS)

Bradley & Bourdas

Judson, Daniel, & Son

Oakey, J., & Son, Ltd.

POSTERS

Ford, Shapland & Co.

PROPRIETARY ARTICLES

Anglo-American Drug Co.

Ashton & Parsons, Ltd.

Barclay & Sons, Ltd.

Bayer Co., Ltd.

Beecham, T.

Beiersdorf, P., & Co.

Box, W. H.

British Drug Houses, Ltd.

Burgess, E.

Capsuloids (1909), Ltd.

Chameleon Oil Co., Ltd.

Christy, T., & Co.

Coleman & Co., Ltd.

Congreve, G. T.

Conoid Co.

Cox, A. H., & Co., Ltd.

Curry, Henry

Daggett & Ramsdell

Daisy, Ltd.

Danys Virus, Ltd.

Da Silva & Co.

Davenport, J. T., Ltd.

Day & Sons (Crewe), Ltd.

Denoual, J., & Co.

Eccles Compounds, Ltd.

Edwards, W., & Son

Evans Sons Lescher & Webb, Ltd.

Faulding, F. H., & Co.

Fellows' Syrup

Fennings, Alfred

Ferris & Co.

Fulford, C. E., Ltd.

Goodall, Backhouse & Co.

Gordon, Murray & Co., Ltd.

Guy's Tonio Co.

Henry, T. & W.

Hovenden, R., & Sons, Ltd.

Hughes, E. Griffiths

Iohethyl Co.

International Chemical Co.

Iron-Ox Rem. Co., Ltd.

Kay Bros., Ltd.

Kutnow, S., & Co., Ltd.

Lalor's, Dr., Phosphodine

Lambert Pharmacal Co.

Loftthouse & Saltmer

Lorimer & Co., Ltd.

Martindale, W.

May, Roberts & Co.

Menley & James, Ltd.

Newberry, F., & Sons, Ltd.

Odal Chemical Works

Owbridge, W. T., Ltd.

Peddy Co.

Phillips, Chas H., Chem. Co.

Quinine Bitters Mfg. Co., Ltd.

Reitmeyer & Co.

Resinol Chemical Co.

Sangers'

Schimmel & Co.

Scott & Bowne, Ltd.

Squire & Sons

Standard Tablet & Pill Co.

Stedman's Teething Powders

Thermogene Co., Ltd.

Thompson & Capper

Voss & Co.

Walker & Son

Wilcox, Jozéau & Co.

Zimmermann, A. & M.

Zotos, Ltd.

(See also DENTIFRIES and TOILET ARTICLES)

PULVELLÆ

Warriok Bros.

PULVERETTES

Oppenheimer, Son & Co., Ltd.

PUMPS

Berkfeld Filter Co., Ltd.

QUININE AND SALTS

Boehringer, C. F., & Soehne

Carmichael, F. J., & Co.

Howards & Sons, Ltd.

Pointet & Girard

RAPE OILS

Hull Oil Mfg. Co.

RAZORS

Auto-Strop Safety Razor Co.

Hovenden, R., & Sons, Ltd.

International Distributing Co

RESINS AND RESINOIDS

Allen, S., & Sons, Ltd.

Allen & Hanburys, Ltd.

Morson, T., & Son

Ransom, W., & Son

Smith, T. H., Ltd.

RENNET

Fullwood, R. J., & Bland

Oldfield, Pattinson & Co.

RESPIATORS

Zimmer & Co.

RUBBER GOODS

Burge, Warren & Ridgley, Ltd.

Davol Rubber Co.

Dunlop Rubber Co., Ltd.

Galen Mfg. Co.

Haywood, J. H.

Hovenden, R., & Sons, Ltd.

Hutchinson Co.

Maw, S., Son & Sons

May, Roberts & Co.

Warne, W., & Co., Ltd.

SACCHARIN

Saccharin Corporation, Ltd

SALICIN

Macfarlan, J. F., & Co.

Smith, T. & H., Ltd.

SAMPLE CASES

Keane, Thomas

SANTONIN

Smith, B. A., & Co.

SAPONIN

Field, C. W.

Stamer, Dr. R.

SAUCES

Goodall, Backhouse & Co.

SCALE PREPARATIONS

Morson, T., & Son

SCALES, WEIGHING

Maw, S., Son & Sons

Parnall & Sons, Ltd.

Southall Bros. & Barclay, Ltd.

SEA SALT

Tidman & Son, Ltd.

SEA-SICKNESS REMEDY

Zotos, Ltd.

SELTZOGENES

Aerators, Ltd.

SERUMS AND ANTITOXINS

Allen & Hanburys, Ltd.

American Animal Therapy Co.

Evans Sons Lescher & Webb, Ltd.

Parke, Davis & Co.

Sohmelle & Co.

Wilcox, Jozéau & Co.

SHARES

Mo Adam & Tuckniss

SHEEP-DIPS

Burt, Boulton & Haywood

Sanitas Co., Ltd.

Tomlinson & Hayward, Ltd.

SHOP-FITTING

Ayrton-Graham, Ltd.

Bowling & Son

Evans Sons Lescher & Webb, Ltd.

Joseph, P., & Son

Maw, S., Son & Sons

Mills, H.

Parnall & Sons, Ltd.

Rudduck & Co.

Sangers'

Southall Bros. & Barclay, Ltd.

SOAPS

Allen & Hanburys, Ltd.

Armour & Co., Ltd.

Bell (John), Hills & Lucas, Ltd.

Bronnley, H., & Co., Ltd.

Chesebrough Mfg. Co.

Cook, E., & Co., Ltd.

Erasmio Co., Ltd.

Evans Sons Lescher & Webb, Ltd.

Hull Oil Mfg. Co., Ltd.

International Distributing Co.

Lescol Perfumery Co.

Oakley, J., & Son, Ltd.

Pears, A. & F., Ltd.

Peat Products (Sphagnol), Ltd.

Price's Patent Candle Co.

Shaw, Henry, & Co.

Wright, Layman & Umney

SODA FOUNTAINS

British Automatic Aerators, Ltd.

SOAP PLANT

Forsbaw, E., & Son, Ltd.

SOAP MATERIALS

Armon & Co., Ltd.

Chiris, Antoine

SOAPS, MEDICATED

Armour & Co., Ltd.

Bronnley, H., & Co., Ltd.

Calvert, F. C., & Co.

Lambert Pharmacal Co.

Resolin Chemical Co.

Wright, Layman & Umney

SODIUM BICARBONATE

Brunner, Mond & Co., Ltd.

Howards & Sons, Ltd.

Munford, G. S.

SOIL INSECTICIDE

Vaporite-Strawson Co., Ltd.

SOYA OIL

Hull Oil Mfg. Co.

SPARKLETS

Aerators, Ltd.

<

TILLS, ESSENTIAL OIL

Bennett, Sons, & Shears, Ltd.
SYNTHETIC REMEDIES
Boehringer, C. F., & Soehne
Boehringer, C. H., Sohn
Hoffmann-La Roche, Ltd.
Reitmeyer & Co.

AEROPHONES

Aerators, Ltd.
Barnett & Foster
Brett, E., & Co., Ltd.
Camwall, Ltd.
Idris & Co., Ltd.

BRINGE CASES

Estes, E. B., & Sons

DRUPS, MEDICINAL

Chemist's Co-operative Wholesale
Fellows' Med. Mfg. Co.
Fletcher, Fletcher & Co.
Lloyd, T. H., & Co., Ltd.
Squire & Sons

ABLETS, COMPRESSED

Allen & Hanbury's, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Duncan, Flockhart & Co.
Evans, Sons Lescher & Webb, Ltd
Howards & Sons, Ltd.
Jackson, E. E.
Lloyd, T. Howard, & Co.
Parke, Davis & Co.
Potter & Clarke

STANDARD TABLET & PILL CO.

Thompson & Capper
Wand Manufacturing Co.
Wander, A.

ABLOID PRODUCTS

Burroughs Welcome & Co.
ARTARIC ACID

British Drug Houses, Ltd.
Boehringer, C. H., Sohn

IN BOXMAKERS

Goodall, Backhouse & Co.
Huntley, Boorne & Stevens

ODILET PAPER

Ford, Shapland & Co.
Newbery, F., & Sons, Ltd.
Townsend, J., & Sons

TELEPHONE CAPS

Jeyes Sanitary Compound Co.

TELESCOPES

Darton, F., & Co.

TOBACCO

"Pinoco" Depot
Singleton & Cole, Ltd.

TOFFEE

Meggesson & Co., Ltd.

TOILET ARTICLES

Allen & Hanbury's, Ltd.
Armour & Co., Ltd.
Auto-Strip Safety Razor Co.

Barnett & Co.

Beetham, M., & Son

Berliner, Arthur

Blaakie, R.

Bronnley, H., & Co., Ltd.

Burroughs Welloome & Co.

Cheesebrough Mfg. Co.

Christy, T., & Co.

Cook, E., & Co., Ltd.

Daggett & Ramsdell

Daisy, Ltd.

Edwards' Harlens, Ltd.

Erasmo Co., Ltd.

Euryl, Ltd.

Fulford, C. E., Ltd.

Hall & Ruckel

Harker, Stagg & Morgan

Hovenden, R., & Sons, Ltd.

John Strange Winter

Lloyd, A., & Co.

Lloyd, A. S. (Hovenden)

Lorimer & Co., Ltd.

Morison, G. H., & Co., Ltd.

Mysantol Co.

Newbery, F., & Sons, Ltd.

Ni-Verr Chemical Co.

Odol Chemical Works

Papier Poudré, Ltd.

Parke, Davis & Co.

Pomeroy, Mrs., Ltd.

Quelch, H. C., & Co.

Reuter, R. J.

Rowland, A., & Sons

Sangers'

Sanitas Co., Ltd.

Shaw, Henry, & Co.

Standard Tablet & Pill Co.

To-Kalon Mfg. Co., Ltd.

Toogood, W., Ltd.

Velvix Toilet Co.

Woolley, J., Sons & Co., Ltd.

TRADE-MARKS AGENTS

Barker, R. W.
Ford, Shapland & Co.

TOOTH-BRUSH CASES

Southall Bros., & Barclay, Ltd.

TOOTH STOPPING

Stevens, P. A.

TRUSSES

Bailey, W. H., & Son

Haywood, J. H.

Wood, Vincent

Woolley, J., Sons & Co., Ltd.

TUBED SPECIALITIES

Christy, T., & Co.

Sangers'

**TURNED WOOD BOTTLES
AND BOXES**

Estes, E. B., & Sons

VALUERS

Alexander, H. P.

Baker, P. C.

Berdeo & Fish

Brett & Co.

Cr ridge & Co.

Smith, Fredk. W.

Tomlinson, T., & Son

VASELINE

Chesebrough Mfg. Co.

VERMIN-KILLERS

Danzys Virus, Ltd.

Evans Sons Lescher & Webb, Ltd.

Farmer, F., & Co.

Harker, Stagg, & Morgan

Kay Bros, Ltd.

VETERINARY MEDICINES

Chesebrough Mfg. Co.

Day & Sons (Crewe), Ltd.

Edwards, W., & Son

Harvey & Co., Ltd.

John, H. C.

Lloyd, T. H., & Co.

Reducine Co.

Tomlinson & Hayward, Ltd.

Walker, Troke & Co.

Wand Mfg. Co.

Wilson Vet. Mfg. Co.

Young, W. F.

VACCINES

Allen & Hanburys, Ltd.

Evans Sons Lescher & Webb

VINEGAR

Grimble & Co.

WATERS, CONCENTRATED

Chemist's Co-operative Wholesale

Robinson, B., & Co., Ltd.

WAXES

Schiemann's Oil & Ceresine Co.

WEED-KILLERS

Burt, Bouton & Haywood

WEIGHING INSTRUMENTS

Farnall & Sons, Ltd.

WHOLESALE DRUGGISTS

Allen & Hanburys, Ltd.

Alliance Drug & Chem. Co.

Ayrton, Saunders & Co.

Baiss Bros., & Stevenson, Ltd.

Bell, John, Hills & Lucas, Ltd.

Blackie, R.

British Drug Houses, Ltd.

Chemist's Co-operative Wholesale

Evans Sons Lescher & Webb, Ltd.

Ferris & Co.

Goodall, Backhouse & Co.

Harker, Stagg & Morgan

Hewlett, C. J., & Son

Horner & Sons

Lennon, Ltd.

Lloyd, T. Howard, & Co.

Lofthouse & Saltmer

Oldfield, Pattinson & Co.

Potter & Clarke

Raines & Co.

Southall Bros. & Barclay

Willows, Francis B. & T.

Woolley, J., Sons & Co.

Wright, Layman & Umney

WINES

Burrough, J., Ltd.

Millar, A., & Co., Ltd.

Robinson, B., & Co., Ltd.

WINES, MEDICATED

Burrough, J., Ltd.

Coleman & Co., Ltd.

Fletcher, Fletcher & Co., Ltd.

ZINC OXIDE

Baiss Bros. & Stevenson

Hubbuck T. & Son Ltd

PREPARE FOR THE WINTER

By ordering Stock
of YOUR OWN

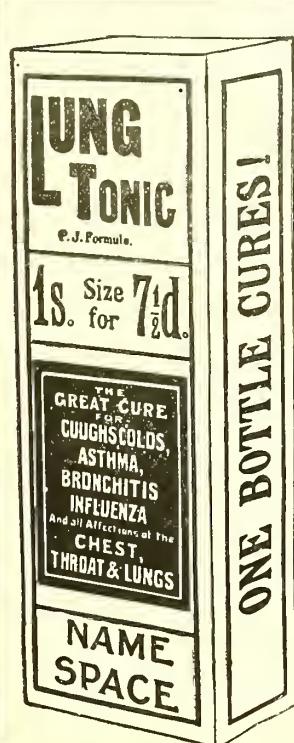
P. J. Form., therefore no
stamps required. Known,
admitted, and approved.

Profit over 100%, and nothing to
do but hand it over the counter.
Makes an effective Window Show.
— Quick seller. Sure repeats.—



Davies, Sons & Co.

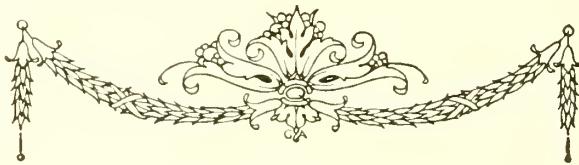
Manufacturing Chemists, THE BRIDGE STREET, DERBY.



EDINBURGH : 93 & 109 Abbey Hill.
LONDON : 9 & 11 Moor Lane, E.C.

MO Pharmacists and all connected with the Drug and Chemical Trades we send hearty good wishes for a Happy Christmas and a Pleasant and Prosperous New Year.

J. F. MACFARLAN & Co.



MORPHIA.
CODEIA.
APOMORPHIA.



ETHER.
CHRY SAROBIN.
SALICIN.

Established 1780.

MORPHIA ESTERS.

CHLOROFORM.

LISTERIAN
ANTISEPTIC DRESSINGS AND MATERIALS.

J. F. Macfarlan & Co.

Edinburgh and London.

Telegrams: 'Morphia' Edinburgh and London.

XMAS 1909

GREETINGS & GOOD WISHES
TO OUR FRIENDS IN ALL
PARTS OF THE EMPIRE

Pharmacists everywhere have come to recognise that the safe mark to have on their galenicals, specialities, packed drugs and sundries is the

Owl

Brand.



It stands for purity, accuracy and excellence of manufacture and gives satisfaction to doctor, chemist and customer.

C. J. HEWLETT & SON, LTD.

Wholesale Export Druggists and Manufacturing Chemists,

35-42 CHARLOTTE ST., LONDON, E.C.

THE SUCCESS OF 1909
IS THE SUREST HOPE
FOR 1910

"ERASMIC"

SOAPS,

SHAVING
STICKS, &
PERFUMES

*Meritable &
Profitable*

*The Erasmic Co., Ltd.
Warrington
Xmas 1909*

With Seasonable Compliments
& Hearty Good Wishes
for your Prosperity
in 1910.

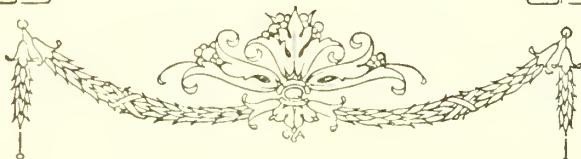
T. & H. SMITH, LTD.



XMAS 1909

*Health, wealth &
prosperity to
Pharmacists all
over the world.
We will continue
to work together
for mutual benefit*

NEW YEAR 1910



GRAND PRIX, PARIS 1900.
GRAND PRIX, FRANCO-BRITISH, 1908.

Codeine
Aloin
Capsicin
Gingerin
Podophyllin
Salicin
Morphine,
Atropine,
Caffeine,
Eserine,
and their salts.
Chloroform.
Ergotin.
Scammony.
Resin, &c.

T. & H. SMITH, LTD.

EDINBURGH :
Blandfield Chemical Wks.

LONDON :
22 CITY Rd., E.C.

GLASGOW :
37 Washington St.

1909-1910

**Goodall Backhouse
& Co.**

send best wishes for a
Happy Christmas and a
Prosperous New Year
to their friends all over
the world.

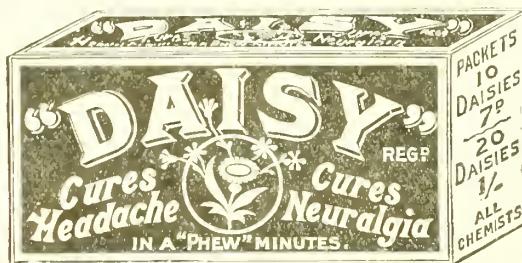


**YORKSHIRE
RELISH**

**WHITEHORSE STREET, LEEDS,
AND 54 SOUTHWARK STREET, LONDON, S.E.**

Xmas, 1909.

We wish you a Merry Christmas and
a Happy New Year



and

"Daisyfoam"
SHAMPOO

We thank all our friends for their orders and kindly interest in "Daisy" and "Daisyfoam" during the year.

We trust that the New Year may be even more prosperous than the old.

It may be made more profitable by pushing sales of "Daisy" and "Daisyfoam," for the more you sell the cheaper you buy.

For terms and particulars, write

Daisy Ltd. MAMMOTH WORKS Leeds

XMAS 1909

‘Fairchild’ & Pharmacists

are so closely allied that
it affords us the greatest
pleasure to wish our friends
all over the world the

Compliments of the Season

NEW YEAR 1910

**Fairchild Bros. & Foster,
NEW YORK & LONDON.**

SOME ‘FAIRCHILD’ PRODUCTS FOR 1910.

‘PANOPEPTON’

‘ZYMINE’ PEPTONISING TUBES.
‘PEPSENCIA.’
‘PEPULE’ PRODUCTS.
‘ENZYMOL.’
‘HOLADIN.’
etc.

Originated and Manufactured by
FAIRCHILD BROS. & FOSTER,
NEW YORK.

PEPTOGENIC MILK POWDER.
DIAZYME.
GLYCERINUM PEPTICUM.
LECITHIN
‘ZYMINE.’
etc.

Agents for Europe, Asia, Africa, and Australasia :
BURROUGHS WELLCOME & CO.
LONDON, SYDNEY, CAPE TOWN.

DALLOFF TEA
SPECIFIC for CORPULENCY.

Price 4/- and 8/- per Packet. Liberal Discounts to Chemists.
OF ALL WHOLESALE HOUSES.

Sole Agency for Great Britain, Ireland, and Colonies:

A. S. WEHNER & CO.

BATH HOUSE,

57-60 Holborn Viaduct, London, E.C.

LORIMER & Co.

LIMITED.

LONDON.

Phone: No. 524 NORTH.

Cables: "CALISAYIN LONDON."

Established 1870.

(H. BROCKLESBY, Sole Managing Director.)

Analytical and Manufacturing Chemists, Wholesale and Export Druggists, Manufacturers and Exporters of all Pharmaceuticals, Flavouring Essences, Toilet Requisites, Veterinary Medicines, Compressed Pellets, Infants' Foods, Granular Effervescing Preparations, &c., &c.

Take this opportunity of wishing their many friends a
PROSPEROUS AND HAPPY NEW YEAR.

Oppenheimer, Son & Co., Ltd.
LONDON

WISH YOU
THE SEASON'S GREETINGS

THE GOOD FAIRY



who watches over
the fortunes of
Chemists in 1910
whispers

“BUY ‘B.B. & S.’ BRAND

COD LIVER OIL EMULSION
WITH HYPOPHOSPHITES

GALENICALS

COPAIBA BALSAM

SANTAL PERLES, “OTHNIEL”

ZINC OXIDE (“OTHNIEL” BRAND)

BEECHWOOD CREOSOTE

and you will enjoy

A PLEASANT
and a

PROSPEROUS NEW YEAR”

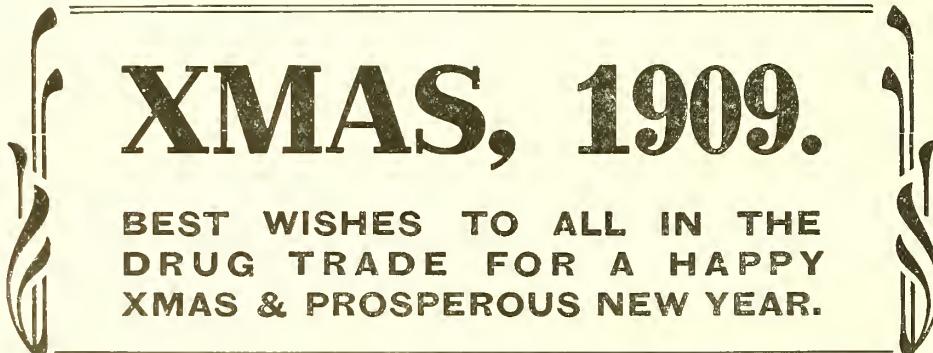
Baiss Bros. & Stevenson, Lim.

Jewry St., London, E.C.

TELEGRAMS:
"POTHS LONDON."

A.B.C. CODE,
4th & 5th EDITION.

TELEPHONE:
HOLBORN 5924 (3 lines).



PHARMACISTS

WHO HAVE LEARNED THE
ART OF SUCCESS KNOW
THAT SMART

SHOP BOTTLES

ARE THE BEST
ATTRACTION FOR
THEIR ESTABLISHMENTS.

Send for our Catalogue.

H. POTHS & CO.

26, 27 FARRINGDON STREET, LONDON.



Seasonable Side Lines.

**ANEROID BAROMETERS.
CLINICAL THERMOMETERS.
AIR CUSHIONS.
HOT WATER BOTTLES.
BED-SIDE TABLES.**

**WATER BEDS.
SAFETY RAZORS.
ATOMIZERS.
ANTI-RHEUMATIC RINGS.
INDIA-RUBBER SPONGES.**

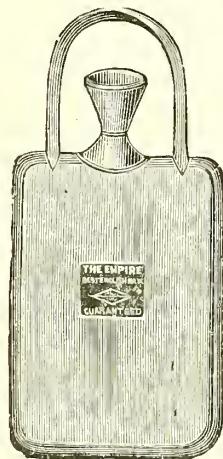


Fig. 955.
TOP HANDLE.

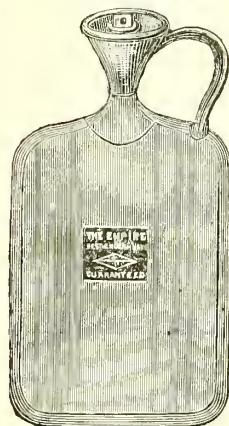
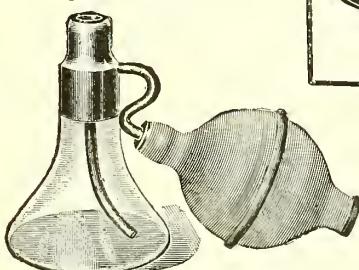


Fig. 957.
SIDE HANDLE.



FOR NASAL USE.

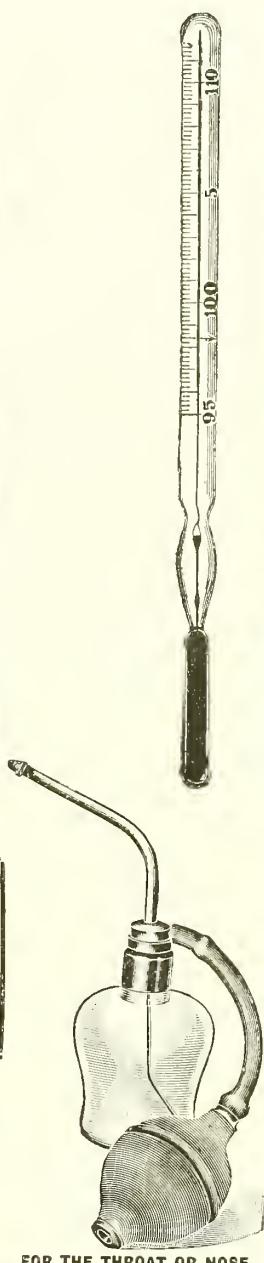
The
Season's Greetings
to all
our friends
in
Pharmacy
and the Drug Trade.

Burge, Warren
& Ridgley, Ltd.
91-92 Gt. Saffron Hill,
London, E.C.

Xmas. 1909. New Year, 1910.



WRITE FOR ILLUSTRATED PRICE
LIST. POST FREE ON
APPLICATION.



FOR THE THROAT OR NOSE.

West End Establishment.



29, 30, 31, 32, & 33 Berners St.,
Oxford St., London, W.

(Nearest Tube Stations—TOTTENHAM COURT ROAD & OXFORD CIRCUS.)
Telephone No. 3021 Gerrard (2 lines.)
Tel. Add.: "Aureoline London."

XMAS 1909.

In
wishing
Chemists
all over
the
world

A Merry Xmas
and a
Prosperous New Year
we remind them that

Combs
Tooth
Nail &
Hair
Brushes
Perfumery
Tobacco
& Pipes
&c.

this



Mark

Cutlery
Fancy
Leather
Goods
Toilet
Soaps
Manicure
Sets
Sprays
&c.

Has meant QUALITY for nearly 100 years.

Our Registered Trade Mark
articles of our

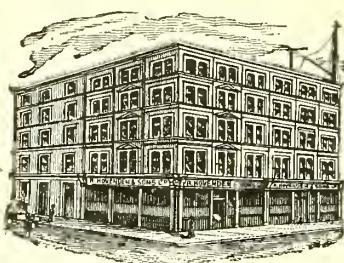


should appear on all proprietary
own manufacture.

R. HOVENDEN & SONS, LTD.

West End Establishment.

City Establishment.



85, 89, 91, 93, & 95 City Road,
Near Finsbury Sq., London, E.C.

(Nearest Tube Station—OLD ST.)
Telephone No. 1648 London Wall.
Tel. Add.: "Glissadermos London."



The Goddess of Good Luck



*recommends to all
Pharmacists
full stocks of
“Prana”*

Sparklet Siphons & Bulbs

*during
1910*

*This will ensure the Pleasant and
Profitable Sparklet Year we wish you.*

**AERATORS, LIM., LONDON,
N.**

IT IS IMPERATIVE THAT CHEMISTS AND OTHERS REQUIRING

ESSENTIAL OILS

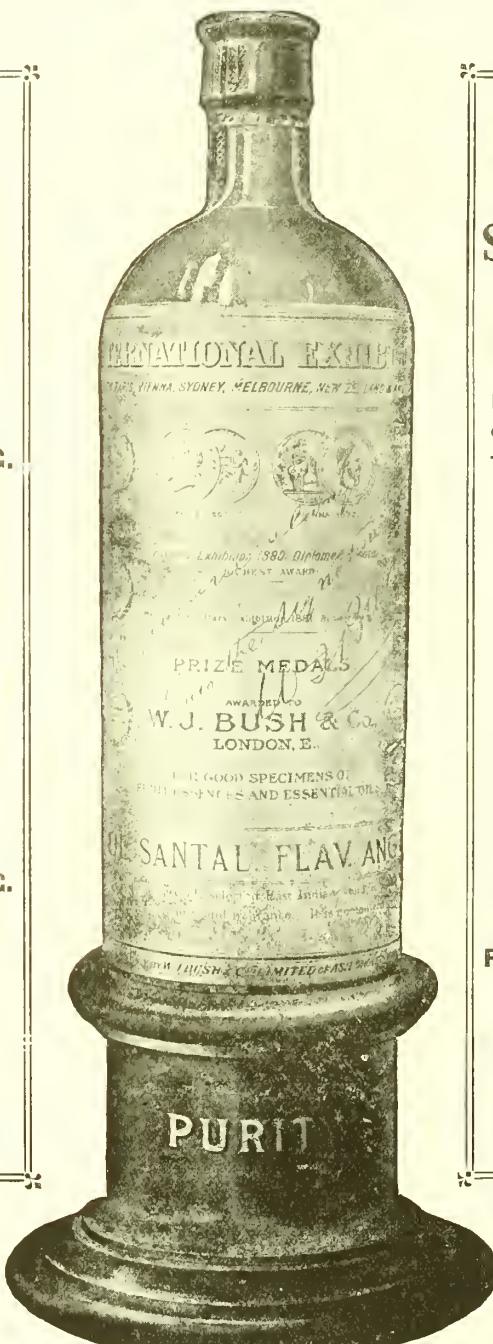
for Medicinal Purposes should employ Genuine and Finest Qualities only.

These can be obtained from W. J. BUSH & CO., LTD., who guarantee the following to be absolutely pure and to pass the tests of the British Pharmacopœia, 1898.

Telephone Nos. 461 Dalston (4 lines).

Telegraphic Address: "TANGERINE LONDON."

- OL. AMYDALÆ ANC.
- OL. ANETHI ANC.
- OL. ANISI.
- OL. ANTHEMID. ANC.
- OL. CAJUPUTI.
- OL. CARUI ANC.
- OL. CARYOPH. ANC.
- OL. CINNAMOMI VER. ANC.
- OL. COPAIBÆ ANC.
- OL. CORIANDRI ANC.
- OL. CUBEBAE ANC.
- OL. EUCALYPTI.
- OL. JUNIPERI ANC.
- OL. LAVANDULÆ.
- OL. LIMONIS.
- OL. MENTHÆ PIP. ANC.
- OL. MENTHÆ VIRIDIS ANC.
- OL. MYRISTICÆ ANC.
- OL. PIMENTÆ ANC.
- OL. ROSÆ.
- OL. ROSMARINI.
- OL. SANTAL. FLAV. ANC.



FRUIT ESSENCES AND SOLUBLE ESSENCES

FLORAL OTTOS

Possessing the aroma
of the natural flowers
to a remarkable degree.

SYNTHETIC PERFUMES.

HARMLESS COLOURS.

CARAMELS.

FRENCH ESSENTIAL OILS.

TERPENELESS ESSENTIAL
OILS.

OIL OF ORRIS CONCRETE.

FRENCH CREAM HEADINGS.

CONCENTRATED FRUIT
JUICES.

PRESERVATIVES.

W. J. BUSH & CO., LTD., Ash Grove, Hackney, LONDON, N.E.

HEAD OFFICES:

BEFORE posting your orders for

PETROLEUM JELLIES

(Yellow and White, B.P., and Commercial).

WHITE OILS

(Water and Half White, Various S.G.) and

WAXES

(Ceresine; Various Colours and M.P., Beeswax.)

Send for Samples and Prices to the actual Manufacturers,

SCHLEIMANN'S OIL & CERESINE Co., Ltd. 23 Leadenhall St., LONDON, E.C.

SAPONINE

Letters Patent in the United Kingdom, Germany, France, Austria, and U.S. America.

FOR THE PRODUCTION OF FROTH IN BEVERAGES.

The Best Material for Making GUM FROTH, LIQUID GUM, &c.

No Boiling or Filtering required. Absolutely Soluble. Better than Soap Bark and without its drawbacks.

Stocks held by my Sole Agents for the United Kingdom:—Messrs. PETRI BROS., 39 Lime Street, London, E.C. For Australia and New Zealand:—Messrs. McDIARMID & CO., 248 Latrobe Street, Melbourne.

DR. RICHARD STHAMER, HAMBURG 8.

SAPONINE

(SOLUBLE),

MANUFACTURED BY

C. W. FIELD,

Cambrian Mills, LIVERPOOL.

Special Terms to Wholesalers and large Consumers.

SAL HEPATICA.

PUT UP FOR EXPORT:

Small size,	3 oz.	bottle,	in case.
Medium "	7 "	"	"
Large "	16 "	"	"

OBTAINABLE IN LONDON FROM

Thos. Christy & Co., 4-12 Old Swan Lane,
Upper Thames Street, E.C.

The American Drug Stores, 4 Northumberland Avenue, Charing Cross, W.C., and Craven House, Kingsway, W.C.

Burgoyne, Burbidges, & Co., 16 Coleman Street, E.C.

F. Newbery & Sons, Ltd., 27 Charterhouse Square.

Roberts & Co., 76 New Bond Street, W.



EAU DE COLOGNE

OF THE MOST ANCIENT DISTILLER,
JOHANN MARIA FARINA,
 OPPOSITE THE JÜLICH'S PLATZ, COLOGNE.

ESTABLISHED A.D. 1709.

PRISE MEDALS: LONDON, 1851 & 1862; OPORTO, 1865; PARIS, 1855 and 1867;
 VIENNA, 1873: "GRAND PRIZE," PARIS EXHIBITION, 1900.

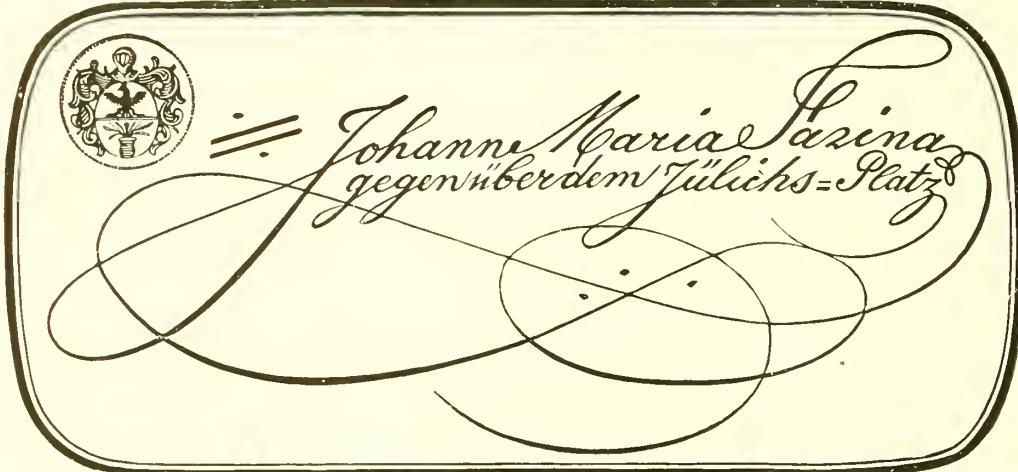
By Appointment Purveyor to His Most Gracious Majesty
 Edward VII., King of Great Britain and Ireland
 and Emperor of India;
 Also to Her Late Majesty Queen Victoria.



Their Majesties William II., Emperor of Germany and
 King of Prussia; Francis Joseph I., Emperor of
 Austria; Humbert I., King of Italy; Albert, King
 of Saxony; Christian IX., King of Denmark; The
 Queen Regent of the Netherlands, &c., &c.

BY APPOINTMENT.

I have the pleasure to hand you my Price List at foot and would call your special attention to the facsimile of my Label as under. I have instituted thirteen suits in the High Court of Chancery for the protection of my Trade Mark, all of which have been decided in my favour.



All similar Labels being more or less imitations of the same, I shall proceed as before against all persons selling or exposing for sale any such imitations.

I only prepare one quality of Eau de Cologne. This quality never varies in the slightest degree, and there has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancestor.

The superiority of my Eau de Cologne having been proved to the public by the above-mentioned highest distinctions, I have not taken part in any exhibition since 1873 until the Paris Exhibition, 1900, where I have obtained the "Grand Prize," the highest award.

* Orders equal to at least 12 dozen short bottles will be promptly executed at 13s. 6d. per dozen, against my bill drawn at three months from the date of invoice, delivered free on board ship, at Rotterdam, Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extra. 10 per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.

For further particulars, please apply to my sole agents for Great Britain and Ireland:

MESSRS. J. & R. McCracken,
 No. 10 BUSH LANE, CANNON STREET, LONDON, E.C.

The following are the sizes of my bottles:

No. 00. Small Green Flasks		24 bottles
" 0. Small White Bottles		24 "
" 1. Long Green Flasks	as per	12 "
" 2. Short White Bottles	figure	12 "
" 3. Double ditto	plate	6 "
" 4. Wickered Bottles (small)		8 "
" 5. ditto (medium)		4 "
" 6. ditto (large)		2 "

} to one dozen.

13/6

*
 F.O.B.
 Continental Ports
 as above.

JOHANN MARIA FARINA,
 Opposite the Julich's Platz.

COLOGNE.

To Wholesale & Export Trades.

New Season's Almonds are now coming forward, the prices this season being a good deal easier than last. We are pleased to be able to promptly give our friends a :: proportionate reduction on the oil. ::

ALMOND OIL

(Ol. Amygdalæ P.B.)

"ALLEN'S."

PRICES ON APPLICATION.

ESTABLISHED 1833

STAFFORD ALLEN & SONS,
LIMITED,

Distillers of Essential Oils, &c., &c.

COWPER ST., FINSBURY, LONDON, E.C.
& LONG MELFORD, SUFFOLK.

Highest Award, Chicago, 1893. Gold Medal, St. Louis, 1904.

A. M. TODD CO., Ltd.

MAIN OFFICE KALAMAZOO, MICH., U.S.A.

GROWERS, DISTILLERS, AND REFINERS OF

CRYSTAL WHITE DOUBLE DISTILLED AND REFINED OIL PEPPERMINT.

This Oil is distilled from the choicest plants of True Peppermint, grown on our own farms, and is guaranteed to be the highest quality produced. We recommend its use to all manufacturers who desire to obtain the best possible results.

Packed in 10 lb. and 20 lb. Tins, and 1 lb., $\frac{1}{2}$ lb., and $\frac{1}{4}$ lb. Bottles.
LET CORRESPONDENCE SOLICITED

"**May Queen**"
POWDERED TOILET SOAP.
DELICATELY PERFUMED.
Packed in prettily decorated Sprinklers.
Certified by Dr A B Griffiths of London Public Analyst as the "VERY BEST TOILET SOAP". Antiseptic. Disinfectant. Hygienic.
 Write for Sample Tin to **HENRY SHAW & CO DUKINFIELD.**

Add a new source of income to your business by taking up

Laurence's

ONE-SOLUTION

Hair Dye

In nine shades — Raven Black, Black, Dar. Brown, Brown, Medium Brown, Light Brown, Golden Brown, Auburn and Chestnut.

THE BEST ON THE MARKET ABSOLUTELY RELIABLE.

Shows over 100 per cent. profit.

Can be supplied under Chemist's own title if preferred, and exclusive design of carton and label reserved in any one town.

Write at once for particulars to—

C. R. HARKER, STAGG & MORGAN LTD.
 Devon Wharf, Emmott Street.
 MILE END, LONDON. E.

VANOLEUM

**STRONGEST
VANILLA
OBTAINABLE.**

You are in business for gain—to get more business and to get more profit out of the business you already do!

Vanoleum will help you to **Increase your Trade and the Ratio of your profit.**

It is the same old Popular Flavour in a new form, one lb. of which makes 2 gallons of best Vanilla Essence for 26/-.

**WHITTAKER, Newton Heath,
MANCHESTER.**

WILL YOU TRY IT?

1 oz. sample sent for 1/-, which is refunded with first order.

NEW STOCK, 1909, NOW READY FOR DELIVERY.
Shipkoff's Pure Otto of Rose.

The test of cheapness is *quality—not price*. Shipkoff's Otto of Rose is the cheapest, because it is the best Otto in the market. It is the *standard* brand—always pure and uniform and *one* quality only. Before placing your contract be sure to get Shipkoff's New Sample and Prices and try it.

ONCE TRIED, ALWAYS USED.

Highest awards at all Universal Expositions: Paris, 1889—Silver Medal. Chicago, 1893—First Diploma and Medal of Absolute Purity. Antwerp, 1894—The Cross and Diploma of Honour. Paris, 1900—Gold Medal. St. Louis, 1904—Grand Prix. Liege, 1905—Grand Prix. Milau, 1906—Grand Prix. London, 1907—Grand Prix.

Shipkoff & Co., Distillers and Exporters of Pure Otto of Rose, Kazanlik, Bulgaria.

London Agents:
 G. P. & J. BAKER, Ltd., 9 Warwick Sq., Newgate St., E.C.

ORRIS CONCRETE

In consequence of the increasing demand for our unrivalled quality we have been obliged to make arrangements to

DOUBLE OUR OUTPUT.

LAUTIER FILS

Factory at

GRASSE

ESTABLISHED 1795

GRASSE
FRANCE

Factory at

BEYROUTH

ESTABLISHED 1905

For Stocks in London, Wholesale only : W. NAUMANN, 63 Bartholomew Close, E.C.

SYNTHETIC OTTO of ROSE

"TIGER" BRAND.

ALMOST

Wholesale only from :—

REITMEYER & Co.,
63, Crutched Friars, London, E.C.

Equal to the,
Natural Otto.

ESTABLISHED A.D. 1768.

ANTOINE CHIRIS,
GRASSE (FRANCE).

London Branch :
43 & 45 GREAT TOWER STREET, E.C.

MANUFACTURER & DIRECT IMPORTER OF
Raw Materials for Perfumers and
Soapmakers.

Telgr.: "ANCHIRIS LONDON." Telephone No. 1534 LONDON WALL.

Essential Oils.

Neroli, Petit Grain, Lavender,
Geranium, Orange, &c.

VIOLET FLOWER
POMADES.

PERFUMES.

E. Lhermine & Cie.
NICE, FRANCE. *
"ODOURENCES",
and
CONCENTRATED PERFUMES
free from Alcohol.

Sole Agents for U.K.—
MARTIN, SPINEL & CO., 93 Aldersgate St.
LONDON, E.C.

S.V.M.
Best Quality Only.

RANDALL & SON,
Limited.
Wholesale and
Export Druggists,
SOUTHAMPTON

LOTIL SOAP.

All soaps hitherto introduced are simple combinations of alkali and fatty acids, which in the presence of water undergo dissociation. The alkali, thus set free, acts deleteriously on the skin, removing the natural fat, and creating a sensation of dryness and tension.

LOTIL SOAP possesses properties the exact opposite. The skin, after the lather has been thoroughly rubbed in, acquires an imperceptible coating of fat, and the sensation after rinsing and drying is that of smoothness and suppleness. A free sample will enable you to prove this.

Write for Price List, WITH BONUS SCHEME, to the Agents:—

JOHN BELL, HILLS & LUCAS, Ltd., "OXFORD WORKS," TOWER BRIDGE ROAD, S.E.

P.A.T.A.

DANGEROUS HAIR PREPARATIONS.

YOU CAN GUARANTEE

Pétrole Hahn

FOR THE HAIR,

Manufactured by F. VIBERT, Lyons, France,

AS

**NON-INFLAMMABLE
AND
NON-EXPLOSIVE.**

Obtainable through all the Wholesale Houses.

Representatives : Wholesale only

The Anglo-Continental Trading Co.
104 HIGH HOLBORN, LONDON, W.C.

Darter Wilkinson & Co.

MANUFACTURERS OF

Pleated Paper
Bottle Caps.



Dish & Dessert
Papers, &c.

NO. 4, MACHINE-MADE.

Nos. 0, 1, 2, 3, 10, 20, 30, 3B, for Phials	... at 5d. per gross
" 4, 4B, 40, for 3 to 6 oz. Bottles	... " 7d. "
" 5, 5B, 50, 53, for 8 to 10 oz. "	... " 8d. "
" 6, 6B, 63 Pints	... " 10d. "
" 39 Winchester Quarts	... " 11 "
" 8 Long, for Wines	... " 1/4 "

23 to 25 Sandland Street, London, W.C.



Would you like
your name branded
on your Corks?

It costs next to nothing.

Full particulars, sample and price list of all Chemists' Corks
free on application.

N. W. MITCHELL & SONS, LTD.
CORK MANUFACTURERS,
" BOUCHON " WORKS, 15-17 Farrance Street, Limehouse, LONDON, E.

ARTIFICIAL & SYNTHETIC PERFUMES.

COMPAGNIE MORANA
Joint Stock Company,
114 SCHAFFHAUSERSTR., ZURICH, SWITZERLAND.

Specialities.

Rose, C. M.
Jacinthine, C. M.
Morana Fixateur
Tilleul
Carnation
Raldéol
Jasmin, C. M.
Musc Liquide
Musc Crystallisé
Irisol

Soap Perfumes.

Special Samples on application.

Latest Novelties.

'Illusion'	Lilas
"	Rose
"	Violette
"	Narcisse
"	Muguet fleuri
"	Muguet fleuri, extra

Latest Novelties.

Jasminal
Nerolate
Cœur de Jeanne
Suprême Parfum
Idéalone
Lily of the Valley
Musc Ambrol Liquido
Bouvardine
Rose de Dijon
Clematis

Sole Agents and Consignees for the British Isles and Colonies :

O. MURRAY & Co., Ltd., 53 Gracechurch St., LONDON, E.C.

PRICE LIST AND SAMPLES ON APPLICATION.

Schmoller & Bompard,

Grasse, France.

Oil Almonds
Oil Geranium
Oil Lavender
Oil Neroli
Oil Patchouli

Oil Pennyroyal
Oil Rosemary
Oil Verbena
Oil Vetivert
etc., etc.

Concrete & Liquid Flower Oils
Pure Virgin Olive Oil
Pure Flower Pomades
Extracts
Floral Waters.

SOLE AGENT FOR UNITED KINGDOM :

ALFRED PAUL WHITE, 5 Water Lane,
Gt. Tower Street, London, E.C.

TO WHOLESALE AND EXPORT TRADES.

W. RANSOM & SON

(ESTABLISHED HALF A CENTURY).

MANUFACTURING PHARMACEUTICAL CHEMISTS.

Distillers of Essential Oils and Cultivators of Medicinal Plants.

HITCHIN near LONDON.

SPECIALITIES :

SOLID & LIQUID EXTRACTS

SCAMMONY RESIN

ALOIN

EUONYMIN

EXPRESSED JUICES

JALAP RESIN

LEPTANDRIN

IRIDIN

ESSENTIAL OIL of LAVENDER

ELATERIUM

DRIED MEDICINAL LEAVES

ESSENTIAL OIL of PEPPERMINT

MERCURIAL PILL & OINTMENT

ENGLISH DANDELION ROOT

Medicinal Tinctures and Spirits prepared with Pure Spirit supplied in Bond for Export.

International Exhibitions—London, 1862; Chicago, 1893. Prize Medals awarded for Pharmaceutical Extracts, Essential Oils, and Herbs of superior Quality. Also Award at the Paris Exhibition, 1867.

PAPIER POUDRE

POWDER (in Dainty Book Form) WITHOUT A PUFF.

TRADE MARKS.



Papier Poudre

3d. Book

4½d. ,,

6d. ,,

1/- ,,

1/- Mirror Case of P.P.

6d. Shaving Pads.

In Three Tints:

WHITE,

ROSE,

RACHEL,

Scented or

Unscented.

REGISTERED.



PAPIER POUDRÉ, LTD.,

23 SOMERSET STREET, LONDON, W.
and in PARIS.

AVOID FRAUDULENT IMITATIONS.

Stock the articles which
your customers require
—and will ask for again.
Among these

CALVERT'S Carbolic Tooth Powder

occupies, of course, a prominent position all over the world.

And there is a good demand too for the other specialities, Carbolic Soaps, Ointment, Disinfectants, &c., made by F. C. Calvert & Co., Manchester, England.

Illustrated Price List post free on request.

DAGGETT & RAMSDELL'S PERFECT COLD CREAM.

"The kind that keeps."



The most delightful of all toilet accessories. Known and renowned in every country where daintiness of the toilet is recognised as a mark of refinement. Its popularity is due to its unvarying quality, its absolute purity and the fact that it

NEVER BECOMES RANCID.

Different from and superior to all other cold creams. Not affected by heat, cold or climatic changes. Retains to the last its snowy whiteness, delicate perfume and wonderful properties which have given it international fame.

OBtainable from all WHOLESALE HOUSES.

Made only by
DAGGETT & RAMSDELL,
Manufacturing Chemists,
17 Charterhouse Buildings, Goswell Rd.
LONDON, E.C.

The Lescol Perfumery Co.



FINEST CONCENTRATED PERFUMES

PARMA VIOLETS, JOCKEY CLUB, OPOPONAX, NEW MOWN HAY,
RUSSIAN VIOLETS, SWEET PEA, WHITE ROSE, WALLFLOWER,
and all varieties of exceptional value.

Speciality: "NICOSIA."

No. AA 1 1 oz. ... 10/- per doz. *1/3 each | No. AA 3 3 oz. ... 23/- per doz. *2/9 each.
No. AA 2 2 oz. ... 17/- per doz. *1/9 each | No. AA 4 4 oz. ... 29/- per doz. *3/6 each.
No. AA 5 8 oz. ... 53/- per doz. *6/- each.

*P.A.T.A. Prices.

We have been extensively advertising "NICOSIA" in the principal periodicals and magazines to create an interest which should lead to Chemists receiving inquiries for this speciality.

Illustrated Price Lists on application to

GEORGE ST., CAMBERWELL GREEN, LONDON, S.E.

THE ONLY GENUINE

JAVA POWDER

BOURJOIS, PARIS.

PRICES 1 doz., 7/-; 6 doz., 6/9
19 " 6/6; 24 " 6/3



IN FOUR COLOURS,

Blanche, Naturelle, Rose, Rachet.

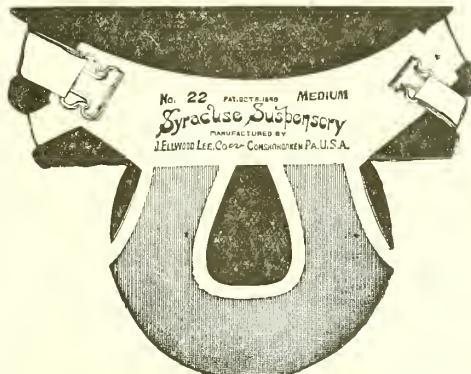
Minimum Retail Price 8d. per Box.

BOURJOIS BRILLIANTINE.

617 is the best value in the market ... 7/- doz.

HENRY C. QUELCH & CO., 4 Ludgate Sq., London, E.C.

SYRACUSE BANDAGES



Made in Three Sizes—Small, Medium, and Large.
The Best to Stock. In demand everywhere.

	£ s. d.
10. Cotton sack, non-elastic band	0 7 3
11. Deimel linen mesh, non-elastic band	0 13 3
12. Deimel linen mesh, elastic band	1 0 9
22. Stockinette sack, non-elastic band	1 0 0
26. Bolting silk sack, elastic band	1 6 6
27. Silk sack, open weave, elastic band	1 6 6
28. Fine silk sack, cotton elastic band	1 6 6
31. Fine silk sack, special weave, elastic band	1 13 3
32. Fine silk sack, special weave, silk band	2 0 0
34. Fancy silk sack, ventilated, satin finish, silk elastic band	2 13 0

HENRY C. QUELCH & CO., 4 Ludgate Sq., London, E.C.

**NEWBRO'S HERPICIDE**

The ORIGINAL remedy that kills the dandruff germ.

This wonderful Hair-Saver acts by destroying the germ or microbe that causes dandruff, itching scalp and falling hair, after which the hair resumes its abundant growth and beauty as nature intended. Extraordinary results follow the intelligent use of Herpicide. Sold in all civilised countries.

Newbro's Herpicide is the most exquisite hair dressing in the world. Cooling and comforting. It stops itching of the scalp almost instantly.

Manufactured by THE HERPICIDE COMPANY, Detroit, Michigan, U.S.A.

TRADE SUPPLIED BY

THE AMERICAN DRUG STORES | THOMAS CHRISTY & COMPANY

Wholesale and Retail

C. BROOKS, M.P.S., Chemist and Druggist,
4 Northumberland Av., W.C.; Craven House,
Kingsway, W.C.; and 36 Cranbourn St., W.C.

4, 10 & 12 Old Swan Lane,
Upper Thames Street, E.C.

PRICES

Retail 4/- per bottle.
Wholesale 33/- per dozen.
in lots of 3 dozen, 5% discount.

TRY IT IN YOUR BATH

BY APPOINTMENT



TO H.M. THE KING.

**SCRUBB'S AMMONIA
MARVELLOUS PREPARATION**

Refreshing as a Turkish Bath.

Splendid Cleansing Preparation for the Hair. Removes Stains and Grease Spots from Clothing.
Allays the Irritation caused by Mosquito Bites. Invigorating in Hot Climates.
Restores the Colour to Carpets. Cleans Plate and Jewellery. Softens Hard Water.

Of all Chemists, Etc. Price 1s. per Bottle.

SCRUBB & CO., LTD., GUILDFORD STREET, LONDON, S.E.



To be "UP-TO-DATE" you must have your "VASELINE" packed in the **Tapered Glass Jars** with Decorated Dome Caps.

3 sizes— $\frac{1}{2}$, 2, and 4 oz.

Smartest and Best Value in the market.

Sale Packers of this particular line.—
SHIRLEY BROTHERS, Ltd.

Prices, &c., on application.

The old-fashioned round jars are "not in it" with this package.

MENTHOL & MENTHOL & EUCALYPTUS SNUFF.

Both on
P.A.T.A.
at 3½d.

Plenty of Profit
to all concerned.

Tortoiseshell Box.

1 doz., 1½d.; 6 doz., 1½d.; 12 doz., 18½d.;
5 gross lots, 16 6 net.

PINE TREE LOZENGES.

In Blue & Silver Decorated Hinged-lid boxes.
Filled 3 6 doz.
Empty 13 - gross.



Oak Box.

**BROMPTON HOSPITAL LOZENGES.**

In Hinged Tins, White, Black, & Gold. 1 doz., 1½d.; 2 oz., 2½d.; filled. Empty Tins, 8d. & 10/- gross.



SHIRLEY BROTHERS, Ltd., Whitecross Works, LONDON, S.E.
and MANCHESTER.

ESCALAPIUS TALKS.—No. 1.

In the matter of bottle capping in the past you have experienced many difficulties, and you have spent long hours tinkering with the old-fashioned skins, strings and adhesives—your bottles have looked dull and ordinary. I propose to tell you each week how you can improve on all this and avoid difficulties by simply using the tried and proved

VISCOSE BOTTLE CAPS.

Look out for me next week. Booklet FREE!

VISCOSE DEVELOPMENT CO., Ltd.

3 New Court, Carey St., London, W.C.



S. & H.

ENCOURAGE BRITISH INDUSTRIES.**WOODS' ARECA NUT TOOTH PASTE**
(PRICES PROTECTED.)

In Pots and Collapsible Tubes, 6d. and 1s. each.

SOLD BY ALL WHOLESALE HOUSES.

Special Terms for £5 from the Proprietors—

W. WOODS & SON, Chemists, PLYMOUTH.

Woods' Areca Nut Tooth Powder, containing all the properties o' the Paste, in 6d. and 1s. Tins.

"HARLENE HAIR DRILL."

The Scientific Process of Hair Culture. Extensive publicity has created a huge demand for "Harlene Hair Drill" preparations which every chemist should be able to meet. SEE TO YOUR STOCKS NOW!



Harlene Hair Drill alone answers all requirements; it has the property of penetrating direct to the roots of the hair, stimulating them to renewed vigour, cleansing the cells which line the way; and, above all, it conveys to the hair bulbs the particular food which they require.

A Generous Offer.

TO CREATE TRADE AND DRAW CUSTOMERS
we will send to any Chemist purchasing a £2 parcel, one gross of **FREE SAMPLE BOTTLES** for distribution, with Dummies, Showcards, Window Bills, etc., for display.

"HARLENE."

FOR THE HAIR.

	Retail.	Wholesale.
No. 1 size	1/-	11/- doz.
„ 2 „	2/6	27/3 „
„ 3 „	4/6	47/- „

"UZON."

BRILLIANTINE.

	Retail.	Wholesale.
1/-	11/- doz.	
2/6	27/3 „	
—	—	

"CREMEX."

SHAMPOO POWDERS.

	Retail.	Wholesale.
1/-	11/- doz.	

per box of 8 powders.

SPECIAL.

Full Discount of 20% off Trade Prices to all buyers of £2 (net), cash with order.

CARRIAGE PAID.

£2 parcel may be assorted according to customer's wishes.

Fully Illustrated Price List quoting all productions sent post free on application to:

EDWARDS' "HARLENE" CO., 95 & 96 HIGH HOLBORN, LONDON, W.C.

SCHOOL OF PHARMACY

OF THE
PHARMACEUTICAL SOCIETY.

The School provides systematic courses of instruction for the Minor and Major Examinations of the Pharmaceutical Society. Both Courses commenced on September 30, 1909, the Minor Course continuing until the end of June, and the Major until the end of March, 1910.

Arrangements have been made to admit to Special Shorter Courses Students who can satisfy the Dean that they have already received adequate scientific training.

Applications for admission to the School, or for any information respecting it, should be addressed to—

THE DEAN OF THE SCHOOL (Prof. Greenish), 17 Bloomsbury Square, W.C.

MUTER'S for SUCCESS

**LOW FEES, SMALL CLASSES
NO EXTRAS, BIG PASSES**

Book Benches now for Next Term,
January 3, and be Qualified by
April for Eight Guineas.

325 KENNINGTON ROAD, S.E.

South of England College of Pharmacy.

(Concilio et labore.)

186 CLAPHAM ROAD, LONDON, S.W.

Principal—H. LUCAS, Ph.C., F.C.S.

Assistant Master—T. W. ATTENBOROUGH, Ph.C. Demonstrator—J. S. WHITE, M.P.S.

HALF TERM, November 15.

Fee till January Examination, 5½ guineas.

NEW TERM commences January 3, 1910.

EXAMINATION RESULTS: Since January 1909 to date, 46 Students have passed their Examinations from this College!

PERCENTAGE DOUBLE THE AVERAGE.

For particulars of College Syllabus, &c., apply **THE SECRETARY**

LEEDS COLLEGE OF PHARMACY.

Principal : F. PILKINGTON SARGEANT.

MAGNIFICENT PREMISES.

ABSOLUTELY PERSONAL ATTENTION.

MODERATE AND INCLUSIVE FEES

Prospectus and all Particulars on Application.

NEXT SESSION COMMENCES JANUARY 10, 1910.

OPTICAL CORRESPONDENCE CLASS.

SARGEANT'S ORGANIC CHEMISTRY, 2/- nett, for "Minor" Students.

LONDON COLLEGE of CHEMISTRY, PHARMACY, and BOTANY.

Principals: { HENRY WOOTTON, B.Sc. (Lond.)
ARTHUR KIRKLAND, Ph.C.

*Systematic Courses of Lectures, Classes, and Practical Work
in Preparation for the Pharmaceutical Examinations.*

**Complete courses of Lectures, Classes, and
Practical Work—**

MINOR.....JANUARY 5th. Fee 9½ guineas to April; 17 guineas to July.
MAJOR.....JANUARY 5th. Fee 6 guineas to April; 12½ guineas to July.
APOTHECARIES' HALL.....JANUARY 24th. Fee 10 guineas to July; 5½ guineas for three months.

COLLEGE OF PRECEPTORS, JANUARY 5th. Fee 4 guineas for three months.

Applications for Benches should be made as early as possible.

EXAMINATION RESULTS.—A larger number of Students have passed the Pharmaceutical Examinations from the London College, since its establishment, than from any other School. Complete lists of Passes published in the School Prospectus.

For Prospectus, &c., apply to—

**THE SECRETARY, London College of Chemistry & Pharmacy,
323 CLAPHAM ROAD, LONDON, S.W.**

Westminster College

402 CLAPHAM ROAD, LONDON, S.W.

(One minute's walk from Clapham Road Electric and Railway Stations.)

The next term will commence on January 4th, 1910.

Mr. G. S. V. WILLS sends his Christmas Greetings and Best wishes for the New Year to all his old Pupils and Friends, at Home and Abroad.

XMAS, 1909.

WILL'S UNIVERSAL POSTAL SYSTEM, Fee £1 1s.

Assistants and Apprentices who are unable to attend a School of Pharmacy may be prepared for the Major, Minor, Apothecaries' Hall, and Preliminary Examinations by means of the above System of Instruction.

For Illustrated Prospectus, &c., apply to Mr. G. S. V. Wills.

Northern College of Pharmacy.

100 & 102 Burlington Street, Manchester.

PRINCIPALS: GEO. CLAYTON, F.C.S., Ph.C.; F. LAWSON, B.Sc., Ph.C.

The preparation for the Minor is thorough in every detail, each student receiving individual attention in Class Room, Dispensary and Laboratory.

**The next Course commences on
January 3rd.**

Entries are now being made.

Prospectus posted to any address.

**THE
Manchester College of Pharmacy.**

DIRECTOR: Mr. CHARLES TURNER, F.C.S., Ph.C.
Analytical Chemist.

225a & 227a Oxford Road,

MANCHESTER.

THE PART-TIME CLASSES which meet on Tuesdays and Wednesdays are a great help to Students in the district, and enable them to obtain all the required information at a reasonable cost.

ASSISTANTS WHO MEAN BUSINESS should join at the beginning of the term—special arrangements are made to help them with their work, and no pains are spared to enable them to qualify, and so obtain the prestige which is the right of qualified pharmacists.

NOTTINGHAM SCHOOL OF PHARMACY

13 Victoria Street, Nottingham.

Principal: S. ROYCE, Ph.C.

Three Months Course for Minor	- £3 8 0	
Six	" " "	- £15 15 0

Passes for 1909, 62 per cent.

WRITE FOR PROSPECTUS. POST FREE.

BIRMINGHAM & MIDLAND

**COLLEGE OF CHEMISTRY, PHARMACY
AND BOTANY,**

45 Newhall Street, Birmingham.

Principal: G. L. SCOTT, Pharmaceutical Chemist.

Full-Time Afternoon and Evening Classes are held.

The College is situated within five minutes' walk of New Street and Snow Hill Stations.

The Equipment is complete and up-to-date.

The Tuition is sound and thorough.

Full particulars on application.

GLASGOW SCHOOL of PHARMACY,

180 WEST REGENT STREET, GLASGOW.

Principal: JOHN LOTHIAN,

Pharmaceutical Chemist, Medallist of the Pharmaceutical Society, &c.

July and October Successes.

The majority passed at their first attempt.

R. M. Blair, New Zealand.
John Gray, Grangemouth.
Lewis Harper, Elgin.
John Logan, Beith.
John Orr, East Kilbride.
Gilbert Spears, Glasgow.

Charles Cochrane, Kirkintilloch.
Geo. Heughan, Dalbeattie.
John King, Wishaw.
William Mitchell, Glasgow.
A. B. Paterson, Glasgow.
Alex. Twedly, Thornhill.

SEND FOR NEW PROSPECTUS, 1909-1910.



Books for Pharmacists

THE SPATULA.—The handsomest and most practical pharmaceutical monthly journal in the world. It is beautifully illustrated, is filled with practical articles, and will help you to make money. Subscription, 5s 6d. post paid. Sample copy free.

1,000 WAYS AND SCHEMES TO ATTRACT TRADE.—This book is the result of over five years of observation and labour, and describes more than a thousand ideas that druggists and other tradesmen have successfully put into practice to increase their sales. Many of them have transformed losing businesses into profitable ones. Almost any one of them will bring you larger business and give you a bigger income. 208 pages 95 x 7 and 120 illustrations. Printed on the best of white paper and bound in handsomely ornamented cover. Price, post paid, 4s.; with THE SPATULA 1 year, 8s.

ONE THOUSAND FORMULAS.—A compilation giving the practical working druggist full information about the making of one thousand of the most common and saleable preparations by L. W. Marshall. Price 3s.; with THE SPATULA 1 year, 7s.

SPATULA VETERINARY FORMULARY.—A collection of practical formulas for all diseases common among horses, cattle, swine, poultry and dogs, by L. W. Marshall. 2s.; with SPATULA 1 year, 6s.

TOILET PREPARATIONS.—A treatise on the manufacture of Casein Massage Creams, Complexion Creams, Cold Creams and Face Creams; Powders, Toilet Lotions, Camphor Ices, Bath Tablets, and other similar preparations, including hundreds of the latest and best formulas. Compiled and edited by L. W. Marshall. Price post paid, 2s.; with THE SPATULA 1 year, 6s.

SPATULA HERB BOOK.—A classified list of Medicinal Herbs, giving botanic names and common names, with properties of each. A concise and practically complete list. Arranged alphabetically under both the scientific and the common names, so any herb may be instantly found. Price 2s.; with SPATULA 1 year, 6s.

EXTRACTS AND PERFUMES.—A treatise on the most practical methods for the manufacture by the retail or wholesale pharmacist of Flavouring Extracts, Colognes, Toilet Waters, Perfumes, Sachets, Funigating Pastilles, &c., together with several hundred tested and workable formulas by Prof. W. L. Scoville and other authorities. Cloth, 4s. With SPATULA 1 year, 8s.

500 SPATULA FORMULAS for the making of Common Remedies, Perfumes, Soaps, Tooth Powders and Washes, Hair Dyes, Cosmetics, Colognes, Liqueurs, Cements, Glues, Mucilages, Blackings, Corn Cures, Rat and Vermin Poisons, Extracts, Fire-works, &c. Price 2s.; with SPATULA 1 year, 6s.

SPATULA LABEL BOOK.—For shop use, comprising labels for practically all the Drugs, Chemicals, and Preparations in the Pharmacopoeias, and for a large number of unofficial articles, utensils, apparatus, &c.; over 2,000 labels. Price 4s.; with SPATULA 1 year, 8s.

SPATULA SODA-WATER GUIDE.—Third Edition. Entirely rewritten and brought right up to date. Nearly 2,000 formulas and subjects. Standard American authority on all kinds of fountain drinks. 4s.; with SPATULA 1 year, 8s.

HOW TO MAKE TABLETS.—By Frank Edel. A treatise on the manufacture by retail druggists of all kinds of Compressed Tablets, together with a large number of practical formulæ. 1s.; with SPATULA 1 year, 6s.

15,000 RECEIPTS.—A new revised edition of the "Cyclopedia of Receipts." Probably the most practical and valuable collection of formulas and receipts ever published. Besides the receipts there is a vast amount of information on various subjects. Circular giving contents free. Price 2ls.; with THE SPATULA 1 year, 23s.

PRICELESS RECIPES.—3,000 secrets, 368 pages. A book of recipes, and nothing but recipes. Not a cook book. Silk cloth finish. Post paid, 3s.; with THE SPATULA 1 year, 7s.

100 ILLUSTRATED ADS.—A collection of 100 illustrated ads. and a catalogue of hundreds of cuts, all designed especially for druggists. 2s.; with SPATULA 1 year, 6s.

SPATULA CUT CATALOGUE.—10th Edition. The best collection of half-tone and line cuts for advertising and illustrating purposes in the world. Thousands of beautiful illustrations. Price 2s.; with SPATULA 1 year, 6s.

THE SPATULA BEAUTY BOOK.—Full-page art pictures from photographs of sixty-five of the handsomest women in the world. Printed in monotone on the best 120-lb. coated paper. Many are suitable for framing. Second Edition. Improved and enlarged. Price, post paid, 1s. 6d.; with THE SPATULA, 1 year, 6s.

(Cheques on local banks in Great Britain accepted. Make Money Orders payable to IRVING P. FOX, Treasurer.)

THE SPATULA, 14 Sudbury, Boston, Mass.

JAMES J. HICKSManufacturer of Clinical & Scientific Instruments (Wholesale only). **8, 9 & 10 HATTON GARDEN, LONDON, ENG.****GAINED HIGHEST AWARDS.**

Paris, 1900.

Nine Gold and Silver Medals were also awarded to me—Paris, 1900.

**GAINED HIGHEST AWARDS.**

The only Gold Medal awarded for Clinical Thermometers.

INVENTIONS EXHIBITION.

1885, London.

Grand Prix, Franco-British Exhibition, 1908.

CLINICAL THERMOMETERS.

BUY YOUR CLINICAL THERMOMETERS OF THE REAL MAKER.



Over 50 different varieties to choose from

I made the first in 1862, and have now MADE and SOLD over TEN MILLIONS.

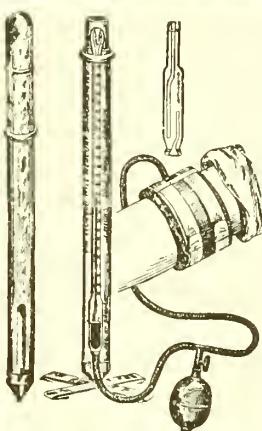
ILLUSTRATED PRICE LIST ON APPLICATION. SPECIAL QUOTATIONS TO LARGE BUYERS.



THE use of Armlets, Taps, and Mercury is entirely obviated. In size no larger than Clinical Thermometer. Zero adjustment is automatic.

10/- Post Free.

Readings identical with Riva-Rocci and Hill-Barnard Systems.

**SPHYGMOMETERS**

For BLOOD PRESSURE RESEARCH. Hill-Barnard and Riva-Rocci Systems. Pamphlets Free.

The LEONARD HILL (Regd.)

MERCURY SPHYGMOMETER.

ILLUSTRATIVE LIST POST FREE

ADVANTAGES.

- 1.—A single tube instrument giving greater accuracy.
- 2.—Rubber caps to tube unnecessary.
- 3.—Can be carried in an ordinary thermometer case as shown in illustration.

FORD, SHAPLAND & CO.*Chemists' and General Printers, &c.*

6 GREAT TURNSTILE, HIGH HOLBORN, LONDON, W.C.

ILLUSTRATED COUNTER BILLS

And ORDINARY COUNTER BILLS

on White or Assorted Tinted Paper.

Specimens and Prices on Application.

LABELS
of every description.**FOLDING CARDBOARD BOXES.**

Plain or Printed in Choice Designs for putting up Specialities.

PRICE LISTS, PAMPHLETS, CIRCULARS, BILLHEADS, CARDS, MEMORANDUMS, PRESCRIPTION ENVELOPES.

And all kinds of PRINTING and Stationery required by Chemists, at most moderate Prices.

CABINET PAPER for the Water Closet.

In Registered Shape Boxes and Packets.

SAMPLES AND PRICES ON APPLICATION.

TOILET ROLLS

Write for Samples and Prices

Chemists' Slip Labels, from 1/- per 1,000,
Chemists' Pill Labels, from 1/3 per 1,000.**POSTERS**

For Chemists' Specialties, &c.

BOOKBINDING

And ACCOUNT BOOK MANUFACTURING in all Branches.

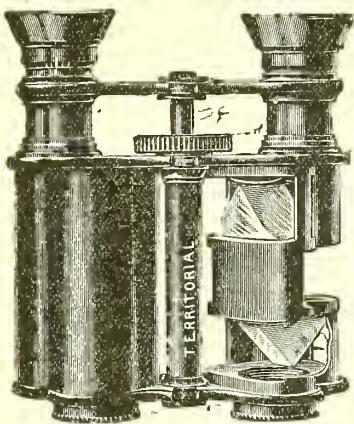
Almanacs & Calendars For 1910.NEW and CHOICE DESIGNS.
Send for Specimens and Prices.

Prescription Books, Ledgers, and Account Books.

Demy Paper, and Wrapping Paper for Chemists, Twine, Sealing Wax, &c.

AGENTS FOR REGISTRATION OF TRADE MARKS.

Designs furnished if required.



THE "TERRITORIAL" PRISM BINOCULAR.

Registered No. 303455.

BENDING BARS,
SCREW FOCUSING ADJUSTMENT,
INDEPENDENT FOCUSING EYEPIECE,
MAGNIFYING 8×.

SOLID ENGLISH LEATHER CASE.

Retail Price, 84/-
TRADE PRICE ON APPLICATION.

Any Chemist-Optician not stocking this should
write for one on approval!

TO BE OBTAINED FROM ANY WHOLESALE OPTICIAN, OR

RAPHAEL'S

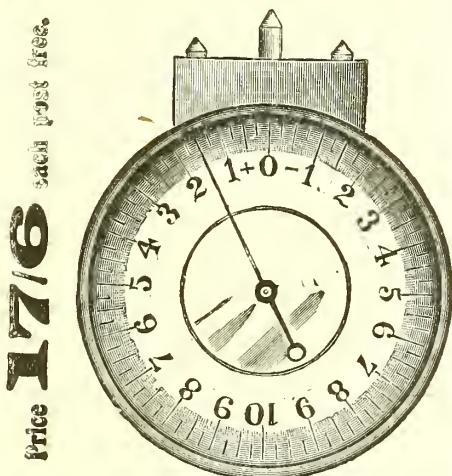
LIMITED.

57b & 57c HATTON GARDEN, LONDON, E.C.

LENS MEASURE

FOR MEASURING

Spherical and Cylindrical Lenses



Price
17/6
each pair

Illustration shows Instrument exact size.

Manufactured and Sold by—

BOTWRIGHT & GREY
Spectacle and Eyeglass Makers,
13 & 14 Spencer Street, Clerkenwell
LONDON, E.C.

Druggists' Turned White Wood Boxes

of every description.

These Boxes are made from Selected White Willow Wood, and finely finished.

They are very cheap, from 1/- per gross upwards.
WOODEN BOTTLES and VIALS also from 1/- per gross upwards.

Inventors and Patentees of

SILICATED GREASE-PROOF BOXES

A boon to Ointment Manufacturers. A perfect substitute for a Covered Pot.

Unbreakable and very light, and saves half the duty in Countries where it is charged on the gross weight.

See that each Silicated Box is Stamped on the bottom with our Stamp, to avoid worthless imitations.

PRICE LIST AND SAMPLES ON APPLICATION.

ROGERS & CO., Carter St., Walworth, London, S.E.



BOWLING & SON, Shop Fittings & Shop Fronts.

See letter just received from Robert Hunter of Aberdeen!—



A willing mind makes light employment.

"DEAR SIR,
On the completion of your contract for the removal of my Fittings from 118 to 111 Union Street, and the complete fitting of new premises, I have much pleasure in expressing my entire satisfaction with your work."

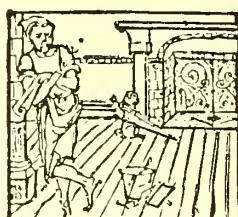
"The difficulties you had to contend with in the removal of old fittings for adaptation to new shop, without the suspension of business for a single hour, reflects great credit on the skill and experience of your workmen."

"It is extremely gratifying to find that the handsome and artistic design is much admired by all, and spoken of in the most praiseworthy terms."

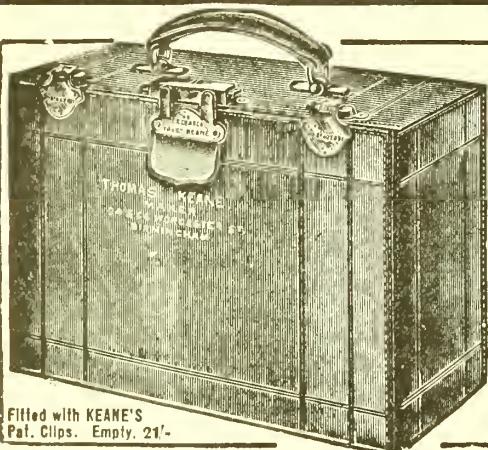
"The excellence of materials used throughout, the useful adaptation of every part of the fittings, the thoroughness with which the work was executed, and the moderation in cost form the best testimony in your favour."

"I have every confidence in recommending you to anyone in need of modern and attractive fittings."

"Yours faithfully,
ROBERT HUNTER."



Labour well planned is half done.



Fitted with KEANE'S Pat. Clips. Empty. 21/-

ARE YOUR TRAVELLERS MODERNLY EQUIPPED?

THOMAS KEANE, ENGLISH COWHIDE SAMPLE CASE MAKER,

64 & 66 Worcester St., BIRMINGHAM.

Manufacturer of the

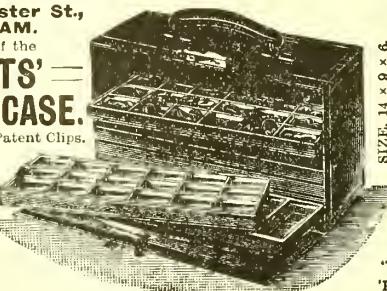
= CHEMISTS' EXCHANGE CASE.

Fitted with Keane's Patent Clips.

Complete with 8 Trays (with 7 or 18 Divisions to each Tray), 27*6*.

FACTORY:
Exchange Works,
Old Meeting Street,
Birmingham.

Write for Illustrated Price List.

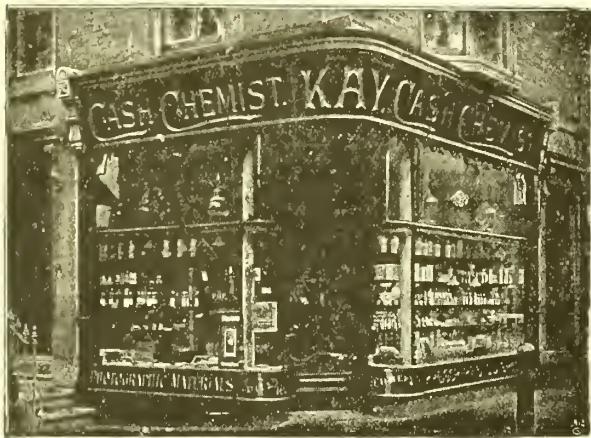


SIZE, 14 x 9 x 6.
Telegrams: "ANEKE B'HAM."
Phone: MID. 1360.

H. MILLS,

Chemists' Shop Fitter, Shop-Front. Builder,
and Show-Case Manufacturer.

163 & 165 Old St., LONDON, E.C.



SHOP FITTED BY H. MILLS.
ESTIMATES FREE.

PLANS FOR ALTERATIONS SUBMITTED.
UP - TO - DATE ARTISTIC DESIGNS.

Shop Fronts, Glass Facias, Stall Boards, Glass Shelves, Window Fittings, Exhibition Cases to Order, Recess Bottles, Jars, Electric Installations. A quantity of First-class Fittings always in Stock.

HIGHEST RECOMMENDATIONS.

"ACME" CONDENSER.

Rapid Cooling
with Economy
of Cooling Water.

Economy of
Space.

Economy in
Initial Cost

Economy in
Cost of Working.

AN IMMENSE
SUCCESS.

Prices on application
to the Manufacturers.

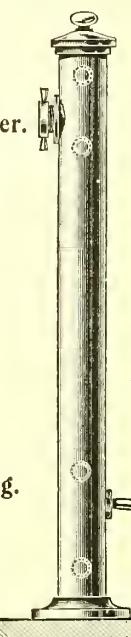
E. BENNETT & SON, LTD.

ENGINEERS AND COPPERSMITHS,

7 Aldgate East Chambers,
LONDON, E.

Works:
THE ALDGATE EAST COPPER & ENGINEERING WORKS.

AN IMMENSE
SUCCESS.



THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C.

SATURDAY, DECEMBER 25, 1909

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers) and to ensure prompt insertion REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 852 Bank (two lines). Telegraphic Address: "Chemicus London."

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."



*This Good Fairy
will bring Happiness
at Xmas and Prosperity
in the New Year to all in
Pharmacy and the Drug Trade.*

HER MOTTO: IT PAYS TO PAY FOR THE BEST.

Messrs. ORRIDGE & CO.

Present their compliments and cordially thank their clients for favours received during the past year, and tender

Best Wishes for Christmas
— AND A —
= Prosperous New Year. =

VALUATIONS FOR STOCKTAKING.

Messrs. O & Co. desire to emphasise the necessity of a Periodical Statement of Account, by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties, and will make Special Terms for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BRETT & CO.

Telegrams:
BRETT,
LEICESTER.

CHEMISTS' VALUERS AND TRANSFER AGENTS, STOCK-TAKING SPECIALISTS TO THE ENTIRE DRUG TRADE.

Telephone:
160 Y.

8 WEST STREET, LEICESTER.

Valuations for Transfer, Probate, Partnership and Stock-taking. Businesses sold expeditiously and privately. Investigations for Purchaser thoroughly undertaken. Stocks sold by Tender. Balance Sheets and Trading Accounts prepared.

We now take the opportunity of wishing our
numerous clients and friends

**THE COMPLIMENTS OF THE SEASON, AND EVERY
PROSPERITY THROUGH THE COMING YEAR.**

Messrs. BERDOE & FISH

Chemists' Valuers and Transfer Agents,

35 JEWRY STREET, FENCHURCH STREET, CITY.

TELEPHONE: 1809 CENTRAL.

**A HAPPY CHRISTMAS and a
BRIGHT AND PROSPEROUS NEW YEAR**

is our greeting to the Trade, and at the same time we wish to thank our many old and new clients and friends for the favours received during the past year, and trust to continue to merit their confidence and recommendations.

TO PURCHASERS.—The Businesses advertised in our last week's advt. are still for sale.

STOCKTAKING.

Every modern Chemist knows that Stocktaking is a necessity, but is he aware of its immense value and importance in connection with FIRE INSURANCE and preparing a BALANCE SHEET? If not, he should at once turn up page 132 in the *C. & D. Diary*, 1910, and carefully read our advertisement on this subject, and then write for our special terms for doing this work.

BUSINESSES WANTED.

Having been successful in recently disposing of a large number of businesses, we are in immediate want of sound concerns in London and all parts of the country, for cash buyers from £300 to £3,000. Intending Vendors may rely on strictest privacy and quick sales. Correspondence cordially invited. Terms sent on application.

PARSON C. BAKER

174 VICTORIA ST., LONDON, [S.W.]

Recommended by—MESSRS. BARRON, HARVEYS & CO.
Telephone: MESSRS. MEGGESEN & CO.

No. 27 Victoria. MESSRS. BAROLAY & SON, LTD.

LONDON.—Nearly unopposed Retail; Hackney; desirable Business, well fitted, fully stocked; proprietor must sell immediately; will accept £750; nice shop; good house; rent £40.

CENTRAL position; good business town, South Coast; old-established, prosperous Business. Lately very neglected, now returning only £500; new, up-to-date window; good shop; large house; rent £66; can let off half as offices; vendor having other engagements will sell for less than value of stock and fixtures.

LONDON, S.E.—Old-established Business in good thoroughfare; doing increasing trade; light Retail, etc.; returns £900; large house and nice garden; rent £60; lease; shop well fitted and fully stocked; price £550 or valuation of stock and fixtures.

LONDON, S.W.—Genue Family Dispensing and Retail; good shop; large house; £30 let off; returns about £650; good prices; net profit £240; price £425.

VALUATIONS (without inconvenience to trade) at moderate prices. Quotations free. Inquiry invited.

BUSINESSES for DISPOSAL.

COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

Replies to Advertisements may be addressed to this office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

LONDON, S.W.—Steadily increasing Business, proprietor leaving England; net profit about £200; would take £400 for cash for immediate sale. Apply, "Frida," c/o Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C.

RUNNINGTON (near Nottingham).—Good profitable General Business, now under management; exceptional opportunity; good house. Apply, W. H. Smith, Chemist, Beeston, Notts.

THIS is an opportunity worth seizing: Branch Business in South Midlands, returns can be verified; last year £500 done without any pushing; good house; no opposition; vendor concentrating efforts other ways; not a cutting shop; £300 part can remain by arrangement. Apply, E. C. Ashford, 32 Gold Street, Northampton.

BUSINESSES WANTED.

SMALL Mixed Drug Store: London preferred; living profit for advertiser and assistant must be proved or no purchase; cash ready £50, remainder (if any) by instalments; please give weekly returns and profits, all other particulars in first letter; strictest privacy given and kept. Address, in confidence, 81/26, Office of this Paper.

TO LET.

BLACKPOOL.—Owner of premises is open to Let his old-established, completely fitted modern Pharmacy at an inclusive yearly rental; purchase of light stock optional; if required am even open to consider reasonable offers for purchase of complete fixtures, fittings, etc., only, originally costing £500. Don't correspond, but if business bent and a smart man come over, and full particulars will be given on personal application at the Imperial Pharmacy, North Promenade. Principal, Oliver L. Jackson.

FREDK. WM. SMITH

LICENSED CHEMISTS' VALUER.

Valuations for transfer of business, Probate, &c. Businesses for disposal. Stocks and Fixtures purchased to any amount for cash. Stocktakeings undertaken. A Register kept of Assistants and Chemists requiring Assistants; no charge made.

3 Belgrave Terrace, LEEDS

TELEPHONE 02949.

TOM TOM

Telegraphic Address.

THOS. TOMLINSON & SON.

Chemists' Valuers and Expert Stocktakers,

Businesses transferred privately.

29 NEW CANNON STREET, MANCHESTER.

FOR SALE.

Replies to Advertisements may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

FOR immediate Disposal, on account of ill-health of the proprietor, the two following Patent Medicines some years on the market: "Dr. Wilson's Eczema Cure" and the Rheumatic Remedy Kleptorheum (the Pain Thief), capable of great extension with moderate capital only; neglected through ill-health. Address, "Pharmacy," 20 Fordham Street, Liverpool.

OVERSTOCKED.—Pure English Honey, about 4 cwt., extra thick consistency, but dark coloured; sacrifice for 52s. per cwt. Keunaway, Bolney, Sussex.

AGENCIES.

FIRST-CLASS German Manufacturing firm of Proprietary articles, is well known to all Chemists and Druggists all over Germany, is open to take up Sole Agency for British goods; arrangements could be made to have the goods manufactured or packed in Germany in order to save duty. Apply to C. A. G. Browne, 20 Wellington Street, Strand, London, W.C.

PARTNERSHIPS.

SEE "W. H. J." (21/4) in Situations Vacant.

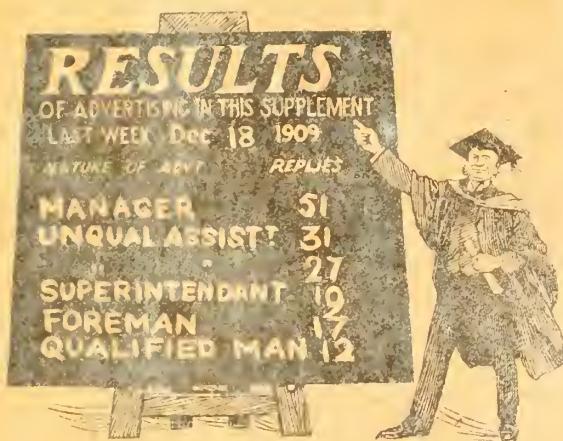
APPRENTICESHIPS.

MR. H. LAWRENCE, Pharmacist, Kenley, Surrey, will have a vacancy for an Apprentice in the New Year; study arranged and supervised by principal; must have passed Preliminary equivalent, and be well-educated and refined; small premium.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents, or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words beyond, prepaid.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a MENTAL PICTURE of your suitableness.

BE BRIEF BUT CLEAR—millions of applications are consigned to the waste paper basket UNCONSIDERED, because the reader cannot form this picture from the inadequacy of the materials set before him.

REPLIES TO ADVERTISEMENTS may be addressed to this Office and forwarded to the Advertiser for an additional charge of 6d. Trade circulars and samples can in no case be forwarded.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that the *Advertiser* pays postal charges in such cases, and perhaps this reminder will obviate the necessity of the constant return of remittances which forgetfulness of this fact entails.

RETAIL.

BRIGHTON. Outdoors, January 18; an experienced qualified Assistant, accustomed to good-class Dispensing business; duties mainly Dispensing, but good Counter experience necessary; age 25 to 30; unmarried; hours 9-9, Wednesdays 9-6 (summer Wednesdays 9-2); usual Sunday duty; salary £144; please give full particulars in first letter and enclose photo. Apply, by letter only, J. Colby & Co., 101 Western Road, Brighton.

CALCUTTA. Minor man wanted for old-established house in Calcutta; 4 years' agreement; passage paid out and home; applicant must be single, under 25, and have first-class references. Apply, w/ particulars of experience, to 81/24, Office of this Paper.

CAMBERLEY, Surrey.—A reliable Assistant required (indoors), for a good-class Family business; age 24-25. Dispensing and Photographic experience essential. Particulars and references to Ralph J. Evans, Chemist, Camberley.

CHISLEHURST.—Qualified Assistant (unmarried) for small Branch; good-class Light Retail and Dispensing. Prebble, Chislehurst.

DIDSBURY—Assistant (outdoors) required for good-class Retail business; age about 23. State full particulars to Travis, Chemist, Didsbury.

GLASGOW.—Qualified Assistant as Branch Manager, early in January; salary £2 2s. to £2 6s., according to experience, good shopman, with Photo knowledge preferred. Apply, giving age, full particulars, references, photo if possible, Abbott, 559 New City Road.

JAPAN.—A Junior, qualified Assistant; age about 25 years; salary (including board and lodgings) £70 per annum, with an advance of £20 each year; 4 years' agreement, passage paid, out and home. Apply, w/ photo and testimonials, to R. L. c/o S. Maw, Son & Sons, 7 to 12 Aldersgate Street, E.C.

LANCASHIRE.—Medical man requires an experienced Druggist (male), about 35, single; good references; morning and evening hours, no housekeeping; salary £1 16s. per week, outdoors. Apply, with photograph, by letter, to 104/18 Office of this Paper.

LAMINGTON.—Qualified Assistant, about 22; indoors. Apply, w/ usual particulars (photo if possible), to J. Price, Chemist, Leamington.

THONBURN HOSPITAL, E. Assistant Therapeutist, required for Laboratory; hours 10-1, with over-time late duty, for which dinner is provided. Apply at the Dispensary.

LONDON, W.—Druggist wanted, qualified, to Stereopticon. Apply, before 10 a.m. Dodd's Druggists Ltd., 50 Tottenham Court Road, or 10 a.m. 220 Holloway Road, W.

LONDON, N.W.—Assistant wanted, early January; indoors, 1 photo and all particulars. Agidy, D. Tremont & Co., 137 Queen's Crescent, N.W.

LONDON, W.—Qualified Assistant, as Counter Performer. A Assistant of good height, appear well, good address; qualifications not essential if first class. Good man and well educated; undeniably refers to character and capability. W. V. Wright, 2 Broadway, Bow, undersmith. Letter early in January.

LONDON, W.—Qualified Assistant must give good references. L. Henry Cooper & Co., Ltd., 24 Creek Street, Soho Square.

MANCHESTER.—Assistant wanted at once, of good experience and appearance; must have excellent references. State age, height, weight expected, and enclose photo or apply personally, to V. Matz, Pharmacist, 5 Bury New Road, Manchester.

NATAL.—Qualified Assistant; age about 18 to 25; 3 years' agreed indent, usual conditions; a first-class appointment with established local English firm; full particulars will be sent to suitable applicants. Reply, stating experience, etc., to "Maritzburg" 104/39, Office of this Paper.

PARIS.—Qualified Assistant required, 15-18, with 2 years' experience, knowledge of French, independent. Address "Galén" 257 to Office of this Paper.

PILKIN—Junior Assistant wanted, aged about 21; indoors. Apply, with particulars, to Knight, 3 The Exchange, Purfleet, Essex.

SOUTH AFRICA.—Qualified Assistant's choice to accept situations in South Africa should apply to Lamont, Ltd., 34/58 Queen Elizabeth Street, London, S.E. Will frequently hear of openings for really good men.

SWANSEA & CO. have a vacancy on January 1 for a qualified **B** Junior Assistant, in local first-class dispensing and Retail. Outdoor. Apply, stating age, height, experience, and salary required, also enclosing 3 Co. 1 F. W. Hunt, 106 Old Town Street, Plymouth.

ENERGETIC Assistant wanted, about 27; Gentleman preferred; must be qualified and be good Dispenser; indoors; good salary. State full particulars, 104/18 Office of this Paper.

Lewis & Burrows require the services of a smart unqualified Assistant. If application is made by letter, please enclose photograph to 146 Holborn Bars, E.C.

MANAGER wanted for small Branch on January 1; no Sunday duty; closed on Thursdays at 1.30. Apply, giving full particulars as to salary, etc., and enclosing photo (if convenient). Davies, Chemist, Treorchy.

QUALIFIED Assistant, to take charge of Dispensing, Prescribing, and Photographic business; steady, reliable man; good Salesman, Prescriber, well up in Photography, and if Extractor preferred; to save time give full particulars, references, and state salary and commission required (in or out doors). Apply, Munro, 2 The Pavement, Lewisham, S.E.

QUALIFIED Assistant, Mixed country; close Wednesdays one o'clock; outdoors. Full particulars. Twelves, Whittington Mtn, Chesterfield.

UNQUALIFIED Managing Assistant, 30-35; good-class General Retail must be a thorough energetic business man, well up in the trade, and able to take full charge when necessary; undeniably recent references. Apply, with full particulars (letters not answered in four days declined), "Statue," 104/24, Office of this Paper.

UNQUALIFIED Manager; energetic, pushing young man required for 12½ per cent. Profit-store, short time at main shop, then Manager of Branch, with profit sharing permanency to reliable, pushing man also; elderly qualification as cover to responsibility or set hours, salary £1. 100/1, Office of this Paper.

WANTED, Chemist to take over management of modern Drug-store in popular Midland town with a view to early success. On a very large scale, a limited amount shop, etc., flat house; moderate rent; exceptional opportunity for married men with limited capital & aiming comfortable income. 104/75, Office of this Paper.

WANTED a qualified Resident Surveyor. Apply, giving full particulars, to L. P. Morris, 19 North End, Bradford.

WANTED soon after Christmas a strong, single, young man as Porter; must be well recommended, and be able to dress windows, put up stock, and write hand, generally useful. State wages and full particulars with reference to J. Griffith Isaac, Chemist, North.

WHOLESALE.

ADVERTISING.—Young gentlemen with Pharmacy practical training, experienced with experience in one or more of the following required by large pharmaceutical firm in London:

1. Display Advertising; state experience and send specimens.
2. Continental experience; give details of countries held and engaged.

3. Arctic experience; give details of engineering held and languages.

Applications must state age, salary required, and give full details of training and position occupied. 104/1, Office of this Paper.

SCOTLAND AND IRELAND.—Wanted, an active, up-to-date Representative, immediately, for one of the leading London Wholesale Drug Houses. Apply, "A. F. H.", c/o Streets, 8 Seville Street, London, W.C.

EDGER Clerk required; one used to the Drug trade preferred. Replies, stating age, experience and salary required, to 108/3, Office of this Paper.

THREE Representatives required for Lancashire, South Wales, and Scotch grounds, to commence in January; must have been on the grounds for the last three years and thoroughly understand the Drug and Packed Goods trade. "Support" (106/9), Office of this Paper.

TRAVELLERS wanted; profitable sideline; an easy selling original packed Proprietary; will be largely advertised; only those calling on Chemists and Druggists need apply; liberal commission. State ground covered and (in confidence) present employers. 104/21, Office of this Paper.

TRAVELLER.—Marr's Currie Powder & Co. require Representatives on commission throughout the United Kingdom, with exception among Chemists and Druggists. Apply, O. Marr, 18 Trinity Square, Brixton, S.W.

WELL ESTABLISHED drug firm in the North of England, doing business principally with Medical Men, requires a Traveller; preferably one who could invest about £600 or thereabouts with the option of acquiring further interest in the firm at convenience. Write, stating age, experience and full particulars, to "W. H. J." (21/4), Office of this Paper.

SITUATIONS WANTED

(Colonial, Indian, and Foreign).

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies or elsewhere abroad.

TWO Pharmacists (23) require Continental experience, sound English experience and references; Square training; slight knowledge of French;ason or permanency. 107/83, Office of this Paper.

SITUATIONS WANTED

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid

[HOME.] RETAIL.

DOCTOR; part-time, or part-time; reliable. Tobeson, 15 Inchmead, Coalport, Shropshire.

ENGAGEMENT; day or part-time, or evening work. Cavendish, 129 Shirlane Road, W.

UNQUALIFIED Junior or Assistant; tall; good references; outdoors. Owen's 33 Pendle, Cardigan.

TEMPORARY, Friday, evenings, who are qualified; 12s.; disengaged. "M. & T." 99 Fleet Road, Hants.

MANAGER; 34; qualified; disengaged; 12s.; good references. "P." 54 St. Agnes Road, N.

DISENGAGED; unqualified; several years' experience. R. M. Leeson, 2 Rockville, Hanville, Gloucester.

DISENGAGED; smart, unqualified man; 38; exceptional experience. Fletcher, Black Horse Yard, Whitechapel.

QUALIFIED; as manager; experienced; a subscriber to town & country; outdoors. 106/16, Office of this Paper.

PHARMACIST; 23; Square trained, etc.; age, experience and references; disengaged January 21. 104/58, Office of this Paper.

ASSISTANT; 22; smart salesman, dispenser, Photography, Window-dresser; disengaged. "Rector," 271 Camberwell New Road, London, S.E.

UNQUALIFIED; 23; disengaged early in January. 104/29, Office of this Paper.

LADY Chemist, qualified, experienced, desires post. 106/12, Office of this Paper.

DOCTOR'S Dispenser desires evening work in London. "Immediate," 22 Knox Street, Sligo.

DOCTOR; qualified; experienced; govt. references. B. Woolstenhulme, Chemist, Crewe Road, Nantwich.

JUNIOR; 23; Dispensing, Photography; 6 years' experience. H. Moore, Vicarage, Egremont, Cumberland.

MANAGER; qualified; 32; good experience; disengaged. Bach, 51 Leyton Road, Handsworth, Birmingham.

QUALIFIED; 24; disengaged; West-end experience; outdoors; London preferred. 104/28, Office of this Paper.

MANAGER; London; experienced; excellent references; 41; Major. 23 Cutbushes Terrace, Blackhill, Durham.

HABIT qualification; 30s. (out); abstainer; single; disengaged; Extra; 7-15. "Statue," 154 Powis Street, Woolwich.

ONE on Continent; qualified; age 27; fluent French; good experience. Beauy Rd, 27 Clifton Crescent, Folkestone.

DISENGAGED January 3; 23; unqualified; Photography; outdoors; Lanes. "J. H. T." 77 West Hill Drive, Mansfield.

PART or whole time, end of January; 23; good references; London preferred. "Experienced" (104/27), Office of this Paper.

ASSISTANT; disengaged; unqualified; 32; experienced, steady; 25s. weekly. Kellard, 45 Whiskin Street, Clerkenwell, E.C.

SITUATIONS WANTED (continued).

MANAGER; 40, unqualified; Locum Assistant; Prescribing reliable; good references. "Urgent" 10 Alfred Road, Stratford.

MANAGER or Locum; reliable; competent; excellent experience; highly recommended. "N." c/o 11 Mayfield Place East-Loune.

ASSISTANT, 23; good Counterman; all-round experience, abstainer; excellent references. Apply, 107/1, Office of this Paper.

UNQUALIFIED; competent Dispenser, Prescriber; used to Store till 38, outdoors; good reference 58 Catherine Road, Sunfield.

UNQUALIFIED, 38; Manager or Assistant; married. Prescriber and Dispenser discharged Christmas through sale of business. 115/37, Office of this Paper.

MANAGER or Assistant, unqualified, 30 abstainer; experienced Dispenser, Counterman, Photographer, Window-dresser and Advertiser. 106/1, Office of this Paper.

YOUNG lady wants a situation in a Chemist's in London to put up stock can serve and attend with Dentistry etc. M Williams, 37 Burgoine Road, Harringay, N.

JUNIOR or improver, 21 tall good Stockler per C under work slight knowledge Dispensing 6 years' experience w. I recommended. J. Patience, North Street, Romford.

LOCUM or temporary. Manager qualified married 29, thoroughly experienced all branches of business. ladies Surgical Instruments. Chemist, 65 Ambrose Road, Bexley, N.E.

MANAGER or Senior; qualified thoroughly experienced; capable Dispenser; energetic. Dentist, Photography. London only; outdoor. Brinsford, 117 Headstone Road, Harrow, Middlesex.

DENTISTRY, Photograhy, General Counter; good Dispenser and Prescriber unqualified giving up business desires situation within 20 miles Liverpool; aged 25. 105/1, Office of this Paper.

FRENCH Assistant (22), disengaged, 12 months' English experience requires berth as Improver in London Dispersing Pharmacy. "France," c/o Evans Sons Lescher & Webb, 60 Bartholomew Close, F.C.

ELDERLY gentleman is open to engagement, temporary or permanent, where qualification is necessary—good experience, active, willing, and obliging; moderate salary. "Chemists," 788 Stratford Road, Birmingham.

TELEMS moderate as Assistant, gentleman, 28; s.t., smart; speak French German, and fair English. Continental experience; knowledge of Photographic; good window-dresser; excellent references. 106/1, Office of this Paper.

QUALIFIED; 35 tall; 18 years' good all-round experience, including West End and South Coast; excellent references; abstainer; last engagement 6 years manager; London or suburbs; outdoors preferred. "Pharmacist," 8 Altenburg Gardens, Clapham Common, S.W.

WHOLESALE.

GENTLEMAN representing Wholesale Drug-houses, North England, desires commissions throughout 106/2, Office of this Paper.

LABORATORY Help.—Well-educated youth desires situation as helper in the Analytical Laboratory of a Wholesale house. 22/34, Office of this Paper.

QUALIFIED Minor; General experience in Wholesale, age 38; good references; abuser. 96/19, Office of this Paper.

MISCELLANEOUS.

SSECOND HAND bargains (ready to be sent off at once) 17 ft. mahogany Counter, glass cases in front £10 10s.; 18 ft. ditto, £10; 1-ft. ditto, £8 10s.; 6-ft. mahogany and plate-glass Counter-case, 8ft.; 5-ft. ditto, 75s.; Perfume-cases, etc., and 10 others. Screens, Fittings, Wall-cases, etc. For full details see page 4 of C & D, issued December 4. Write for particulars of what you want to PHILIP JOSEPHS, 97 Old Street, London, E.C. 9557 London Wall.

WE HAVE WHAT YOU REQUIRE Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand, condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect. RUDDUCK & CO., 262 OLL STREET, E.C.

CHEMISTS' SHOP-FITTINGS SECOND HAND.—Ranges mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, toothbrush cases, complete shop-rounds, etc., every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates from MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

TO Trustees, Executors, Liquidators and others.—immediate cash to any amount for all descriptions of Chemists' Stocks, Fittings, Fixtures, Whole-agers' Oddments, and Druggists' Sundries; best prices given, cash advanced i.e. very soon at business which can show a good turnover. Apply, in confidence, to J. H. Hemmings, 2 Scylla Road, Peckham Rye, S.E.

POISONS SCHEDULE, according to the New Act, reprinted from THE CHEMIST AND DRUGGIST, with a supplementary list of admixtures, preparations, and other articles brought within the Schedule. On a card (Schedule in front list at the back) to hang up; price 6d., post free, from the Office of the C. & D., 42 Cannon Street, London, E.C.; or at the published price (4d.) from the leading Wholesale houses.

NEW ZEALAND KEP'E. Manufacturers using K.E.P. will find it to their advantage to write for particulars to Mr. Bousfield Ward, Ltd., Sutton Coldfield.

SUCCESS DURING 1910.—Follow on twelve month by month as given in "Business Building," i.e. nearly (specimen cost free) read, made advertisements for your Specialties. £1. 6d. subscription will save you time, push your own Proprietary article we will tell you to-day. 2, Wiverton Hill, Ltd., Vicksburg Specialists, N.Y.

WHICH IS THE MOST PROFITABLE?

A Business with 50% of Profits, Patents, or one with 20% or less? Then you may say, "I've got a Patent, do I not?"

A P.M. writes—"In my case the Patent is now out back with the require to exchange for another specialty."

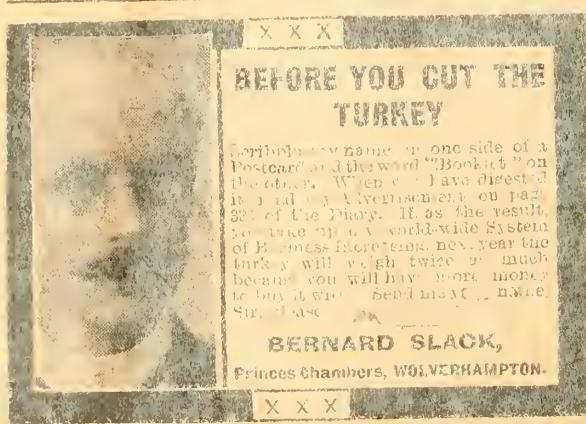
Booklet "How to Increase Your Business" will plainly show you are able to obtain the services of a Patent like yours if for a nominal sum, to help you in your business sent post free to Pharmacists only.

J. R. B. ALLISON, Pharmacist and Business Specialist, RETFORD.

X X X BEFORE YOU CUT THE TURKEY

Periodically name in one side of a Postcard and otherwise "Book it" on the other. When a Java digest is read, a Advertisement on page 32 of The Diary. Has as the result to take up a world-wide System of Business Interlocking next year the turkey will weigh twice as much because you will have more money to buy it with. Send me your name, Sir, please.

BERNARD SLACK,
Princes Chambers, WOLVERHAMPTON.



EXCHANGE COLUMN

One halfpenny per word with name and address. One penny per word if we register the address and attach a number.

No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

C. & D. Diary for 1910. Apply, "J. H. H." 19 Hunter's Road, Newcastle-upon-Tyne.
WHAT offers? Medical Directory, 1909. STICKLAND & CO., 23 Cromwell Place, South Kensington, S.W.
C. & D. Diaries, 1909, 1s. 6d., 1910 2s. 6d., carriage paid; offers for last two years' C. & D. to end December 1909. HIRST, "Sunny-side," Maldon, Essex.

DENTAL.

BENTAL syringe (Parke Davis); 9 pairs circular-jointed forceps; Mrs. the 1st or nearest offer. "G.W.L." (10.5), Office of this Paper.

DRUGS AND CHEMICALS.

14 LB. opium tincture P.B.; 52s. cash with order; no exchange. PALMER, Thornbury, Glos.

FORMULÆ.

FORMULA for sale, liquid brass polish. FRANCE, 42 Verity Road, London N.
CERTAIN chillblain-cure, paint for unbroken, ointment for broken, 1s. 6d. each formula, 2s. 6d. two, post free. KENDRICK, 72 Emmanuel Road, Balham.

PROPRIETARY ARTICLES.

SALEABLE SURPLUS PATENTS.—4 Karox, 6 E.R. Lak, 2 each Iron-Ox, Seigle's Salt, Roche's Ointment, Dollars & Letts Corn, Flemming's pills, Nerve-tonic, Seigel's Ointment, 9d. Kay's Tic Pills, 3 each Munyon's Catapil & Throat's Balsam, 1 each Munyon's Nerve, Feating's Lung, Thierry's Ointment, Clarke's Skin lotion, 2s. 9d. Tonga, Vegeloids, Eno's Antibilious, Vegetable Mote, Mother's Pills, Doughty's Voice, Richter's Pain Expeller, Cooper's Liver Lozenges, Keating's Bon-Bons, Burgess' Liver Pill, what else, all or any? WHOLESALE Cupar, N.B.

MISCELLANEOUS.

THREE gross 3d., 6d. each; 1s. 9d., 3s. 3d. gross, or exchange. MICHAM, 39 Waltham Heath Road, Birmingham.

SHOP FITTINGS.

DISPENSING scales, brass, mahogany stand; perfect order; Maw's what offers? A. GOWEN, Cranleigh, Surrey.
GOLD letters, outside sign (tooth) TEETH, 6 ft. (Roman), electric; also teeth, 6 ft. (script), and makers of high-class, 3 ft. splendid condition, a bargain. Apply, 17 Aldgate, City.

WANTED.

MACHINE to mix about 28 lb. paste. BOUTON, Crayford Mills, Stratford, E.

ONE "Vee Dee" must be in perfect condition; cheap. TOWERS, Chelmsford, Chatham.

DENTAL engine for branch. Detailed particulars (lowest carriage-paid price). FITZPATRICK, Stonybatter, Dublin.

SECOND HAND water-bed, half size, state lowest cash price (must be in good condition). WHITE, Elm Grove Pharmacy, Southsea.

OPTICAL books; Minot, Major. Chemists' books; send prepaid for valuation; cash offers per return. OGWER, Bookseller, Waterloo, Liverpool.

"CHEMIST AND DRUGGIST" December 30, 1905, December 29, 1906, December 28, 1907, complete with index. "C. W.," Office of this Paper.

COMPLETE copies of the C. & D., January 25, 1890, including all the insets. Write, stating condition and prices. "H. W.," Office of this Paper.

DISPENSING SCREEN, all fitting, and stock, in London; state sizes and lowest price; personally inspected. "CHEMIST," 20 Alma Road, Clifton, Bristol.

WINDOW-SCREEN (wire), 8 ft.; mortars, pestles, measures, mould, plaster iron; 2 by 20 ft. oxygen cylinders, taps and keys; jars. MOSLEY, Pharmacist, Old Eastbourne.

Chemists' Calendars.

Messrs. Raimes, Clark & Co., Ltd., manufacturing and analytical chemists, Edinburgh, publish a tear-off calendar which is noticeable for a finely reproduced picture, "The Fortune Teller," by an American artist. The picture is arranged in an oval cut-out mount, the calendar being affixed beneath by means of white satin cords.

An excellent cabinet portrait of Mr. David Howard occupies the centre of the calendar issued by Messrs. Howards & Sons, Ltd., Stratford, London, E. The card is 14 in. by 10 in., and is artistically printed in shades of green, a monthly tear-off calendar occupying the lower part. Mr. David Howard was a partner of the old firm since 1859, and has been chairman of the company since its formation.

The Life Association of Scotland, 82 Princes Street, Edinburgh, have specialised in calendars bearing golf scenes. This year the Association's large calendar (21 in. by 16 in.) has in the centre a sepia-coloured engraving of the North Berwick Links. The figures in the foreground include Mr. A. J. Balfour, Mr. Robert Maxwell, Mr. J. E. Laidlay, and Ben Sayers. A smaller calendar bears a coloured view of Linlithgow Palace. The calendar portions are subservient to the pictures.

Messrs. A. H. Cox & Co., Ltd., Brighton, have sent us one of their calendars, and are ready to send a copy to any chemist who applies. The background of the calendar is a deeply embossed imitation of copper, the upper part with a plaque of two horses' heads. It is a perfect imitation, the traces of green in the crevices completing the illusion of the formation of verdigris which takes place on exposing copper to the air. A daily tear-off is affixed to the lower part, and the only wording on the calendar is "Cox's Pills and Tablets, Brighton."

Personalities.

MR. W. H. LOMAX, chemist and druggist, has been appointed President of the Darwen Tradesmen's Association.

MR. W. L. TOWERS, chemist and druggist, Chatham, has been installed Worshipful Mark Master of St. Andrew's Lodge, Rochester.

MR. F. JACKS, chemist and druggist, High Street, Stone, Staffs, has been re-elected Chairman of the Committee of the local Hospital Fund.

MRS. A. C. WOOTTON and family thank all who have in these pages and otherwise written in appreciation of Mr. Wootton and his services to pharmacy. They highly value the tributes which have been paid to his memory.

MR. J. C. JAQUES, who for many years has represented Messrs. John Ismay & Sons, Newcastle-on-Tyne, will, from January 1, 1910, represent Messrs. Raimes & Co., of York, in the Tyneside, Sunderland, and Northern districts.

DR. A. J. BARNES, Hon. Secretary of the Dublin Retail Drugs Association, is to be a new candidate at the approaching annual election for the P.A.T.A. Council. Dr. Barnes will stand for the retail section and in the hope of getting Ireland represented on the Council.

MR. A. CRAIG COATS, of Bloemfontein, O.R.C., who represents Messrs. Lennon, Ltd., in Natal, Orange River Colony, and Basutoland, arrived in London last Saturday by the *Kinfauns Castle*, and proceeded to Edinburgh, where he will spend the next two or three months.

MR. G. CLARIDGE DRUCE was appointed on the Executive Committee of the Society for the Prevention of Tuberculosis in the City and County of Oxford on December 18. Mr. Druce is also lecturing on January 7 on "Japan," in the series of Christmas lectures for children provided by the Ashmolean Natural History Society of Oxfordshire.

MR. G. E. BRIDGE was the guest of the evening at the banquet given by the masonic lodges of the town on December 17, to commemorate his third successive year as Mayor of Bournemouth, when he was presented with an illuminated congratulatory address. Pharmacy was represented by W. Bro. J. H. Williams and Bros. F. E. Bilson and W. A. Bingham.

Agri-Horticultural Licences.

(Poisons and Pharmacy Act, Sec. 2.)

Notices of Application.

SIRIANO, Robert Abernethy, Mail B essay.
WORCESTER, John Wall, nurseryman, 65 Broad St.

Consideration of Applications

BATH.—The license question came before the Town Council on December 15, when Mr. Gibson said that the public needs were already satisfied. Dr. Preston King complained that a report upon the carrying out of the Act begged the whole question and was misleading. The only object of the Act was to safeguard the public. Mr. Syder-
ham expressed the opinion that the matter was a trade dispute. That the issue of licenses be referred subject to confirmation by the Council, instead of "left to open to the Council" was rejected.

Consideration Deferred

My Sir, At the County Council meeting of December 2^d, the General Purposes Committee recommended that a license should be given to florists at Astor and Chelsea, although in each case there are registered business houses with nursery yards. Councillor Kelland called for the reconsideration of the proposal, before it was deferred for six months. This was the third time the question at the same occasion had come before the Committee. I am in full sympathy with the Councillor. If the Council is so anxious to have these houses closed down, it is only reasonable that the application should be rejected. These are the usual ways of glorifying a trade, by giving licences to unqualified persons. There were 22 florists and chemists within a few miles of us. This was not required by the Pharmacy Act, which requires a medical diploma to be held by pharmacists. However, it is now required under the Act.¹² It is evident that it was wrong in the first instance to give the license. It was argued that persons holding such certificates as those of horticulturists and weelkeepers to be qualified to sell the goods. I gave the chance of getting the necessary documents to the persons, but I pointed out that this was not always done as physicians do, and the remedy could not be obtained. Mr. G. H. Clegg, Councillor Watkinson suggested that a letter of protest be addressed to the Minister of Health, pointing out that if the Council acted in the manner of the Royal Society of Medicine, the Act would be violated. It was agreed to do this. It was a public service, and it was thought that the Council should not let its name be used. A florist's association had wanted the Council to withdraw them from the whole people would be a waste of time. Councillor King-Bailey said he would speak directly with the Council in this matter. It was agreed that we should have to be satisfied with the first class florists. Councillor Gales said the Royal Society of Medicine in this category of a physician's diploma, and that it had been found a short cut side of the road. Councillor Gales further suggested that the Royal Society of Medicine be consulted. Because it was certain that the Royal Society of Medicine would be willing to take care of some of the smaller florists. The movement was carried by twenty-nine votes to thirteen. Messrs W. V. Westlake and H. W. Barber, who had opposed the application.

The Week's Poisonings.

DECEASED fathered and his body was found hanging from a tree in a garden. He was found dead in a room at Lightfoot Cubbington (36), near Bury St Edmunds. His post mortem was found lying dead from the effects of carbon monoxide poisoning. Deceased had access to the dispensary. William Patrick Orr (17) died after taking about 4 oz. of laudanum bath oil by mistake while in a state of intoxication. The drug bath oil was supplied by the local authority, who, in answer to inquiries, stated that its composition was a trade secret, but that it contained carbolic acid. A Fireclay earthenware man named Charles Ritch Rofe (55), committed suicide by taking carbolic acid. Albert W. Henton (29), draper's assistant, also used this acid for suicidal purposes. Deceased asked a local chemist for three-pennyworth of the poison, but eventually bought a sixpenny bottle of the fluid, stating he wanted it for disinfecting a dog kennel. A lamp was found dead near the outskirts of Bathgate with an empty phial of laudanum close at hand. Another bottle which had contained the opiate was also found in one of his pockets - Congestion of the lungs probably accelerated by taking laudanum and some "patent

pills, was stated to be the cause of the death of Thomas Short (41), a gas fitter at the Bedford Union Hospital. It was stat that the drugs had been smuggled into the hospital - *Morphine* poisoning was responsible for the accidental death of Isabella A. R. Long (70), the wife of a South Hants stockbreeder. Deceased was a victim of the drug habit, who was accustomed to using morphine injections. An overdose of the same narcotic ended the life of Dr. James Parrot Maynard at Paddington. The poison was apparently taken in the form of a cough mixture containing chloroform and morphine. Oral morphine taken with suicidal intent caused the death of Wm. G. Jeffries (19) at Stevenage. The self-inflicted death of Mr. F. J. Jenkins (30), schoolmaster, was due to poisoning by potassium cyanide. This form of poison was also taken to end his life by Walter R. C. Paxton (50), schoolmaster, who had recently lost his appointment owing to infidelity. At the inquest at Southampton into the death of Mr. Frederick Milward (62), chemist and druggist, manager of Beers Ltd., Above Bar, Stourbridge, it was stated that it was due to the effects of *prussic acid* poisoning. The victim took a quantity of sodium while of unsound mind. Increased by depression on account of money troubles. At Seaford-on-Sea the Rev. Henry Charles Lang (57), M.D., Vicar of All Saints, was found dead in bed with a bottle of prussic acid on the adjacent dressing-table. A domestic servant named Fanny Ellen Noddy (19) committed suicide at Fleetwood on Thursday by taking a dose of salts. The same day she had learned the death of Elizabeth Lewis (59), her employer, who died at St. Bartholomew's Hospital. She hurried to the shop after getting the poison. This lethal agent was also taken for suicidal purposes by Mrs. Anne Hellier (Walworth). A local oilman said at inquest he was asked for a quantity of spirit of salt to mix into the jam jars brought with him. He offered to do so but before said her hand of the acid, which caused such severe burns.

She required for curing purposes. At Chorley, Mary Bradburne (30) poisoned herself by taking some arsenic, according to coroner's jury Wm. Girtt (44), undertaker, died at Southwell from accidental poisoning by arsenic. Deceased kept a supply of the poison, which was supplied by Mr. George Smith, chemist, Lincoln, for destroying vermin.

Scientific Progress.

Temperatures under this heading are on the Centigrade scale.

Spiralous Apomorphine Hydrochloride. Some time ago Dr. E. K. & J. C. of Lederle informed us that Dr. Hesse of Berlin had reported that the so-called "Apomorphine Hydrochloride" placed in contact with a solution of iodine in alcohol, and a Frankfort glass tube, would decompose rapidly, but only by the action of iodine did the salt fully show traces of apomorphine. Messrs. Koch & Co. remitted Dr. Fritsch, of Vienna, a test specimen, and the results of his work have been communicated to the "Apotheker Zeitung" (No. 69, p. 126). The salt, however, failed to decompose in the iodine solution, and the question still remains whether the hydrochloride is the final product of crystallization, and incapable of dissolving in 4.5 parts of water only its own weight of iodine was required for solution. Dr. Fritsch observes that in certain circumstances the solubility of precipitation does not differ greatly from the ordinary. In the case of apomorphine hydrochloride, a solution which is saturated with iodine decomposes in the case of the hydrochloride, and the deposit obtained with iodine disappears from a mixture of true apomorphine hydrochloride quickly and becomes white, while this is only perceptible in the case of the spurious. A solution of the precipitated alkali, however, often undergoes a decided change in the case of the authentic apomorphine, whereas in the case of the spurious precipitation is scarcely affected. Dr. Fritsch considers that the new edition of the Pharmacopœia should distinguish by tests between the trimorphine and apomorphine, and he gives the following test as suitable for the purpose:

Place 9 gm. grams of the epinephrine hydrochloride in a small dry glass and pour over it 5 c.c. of a mixture of hydrochloric acid 1 part and water 4 parts. To this add potassium-mercuric iodide solution. Pure epinephrine hydrochloride gives at the most an opalescent turbidity, but no other alkaloids are present the hydrochloric acid filtrate gives a distinct blue color with potassium-mercuric iodide.

As little as 10 per cent. of the morphine hydrochloride in the apomorphine salt is detectable by this test, as also are morphine and the other alkaloids.

The National Cash Register Company, Ltd.

225 Tottenham Court Road, London, W.

Great Reduction in Prices.

Cash Registers from £4 upwards.

Autographics, £1 to £6.



— Use a National Cash Register in your shop!
It will save you money, mistakes it will stop,
Protecting your Customers, trade will increase,
Your time will be saved, and your worry decrease.

We accept monthly instalments if required.

Established 20 years.

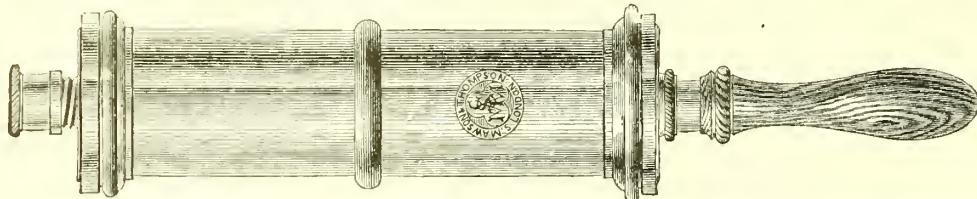
Our Machines Guaranteed to be Cheaper and Better than any other make.

**New Machines at lower prices than those charged
by other dealers for similar machines second-hand**

Write for particulars, or call at any of our Show Rooms and inspect our stock, where we have Cash Registers suitable for every class of shop, from the smallest to the largest.

BRANCH OFFICES IN EVERY TOWN.

To Provincial Chemists



WRITE FOR

MAW'S

complete Illustrated List of Veterinary Instruments, including

- Abscess Knives
- Balling Guns
- Bull Rings
- Casting Hobbles
- Castrating Clams
- Clinical Thermometers
- Catheters for Mares
- Catheters for Horses
- Clipping Machines
- Clyster Syringes
- Drenching Horns
- Drawing Knives
- Enema Pumps
- Embryotomy Knives
- Firing Irons
- Gags
- Horse Standards
- Inseminators
- Milking Tubes
- Milk Fever Outfits, &c.



7 to 12 ALDERSGATE STREET, LONDON, E.C.

Telegrams: "Eleven London."

Telephone: 3230 London Wall.

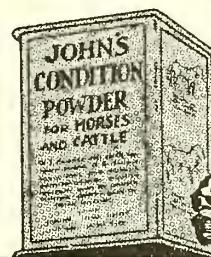
"EQUINOPULV"

(Registered Trade Mark)

is a renowned Indian Specific

AND IS

IN GREAT DEMAND.



**JOHN'S
CONDITION
POWDER
FOR HORSES.**

**E
Q
U
I
N
O
P
U
L
V**

(Regd.)

See What Users Think.

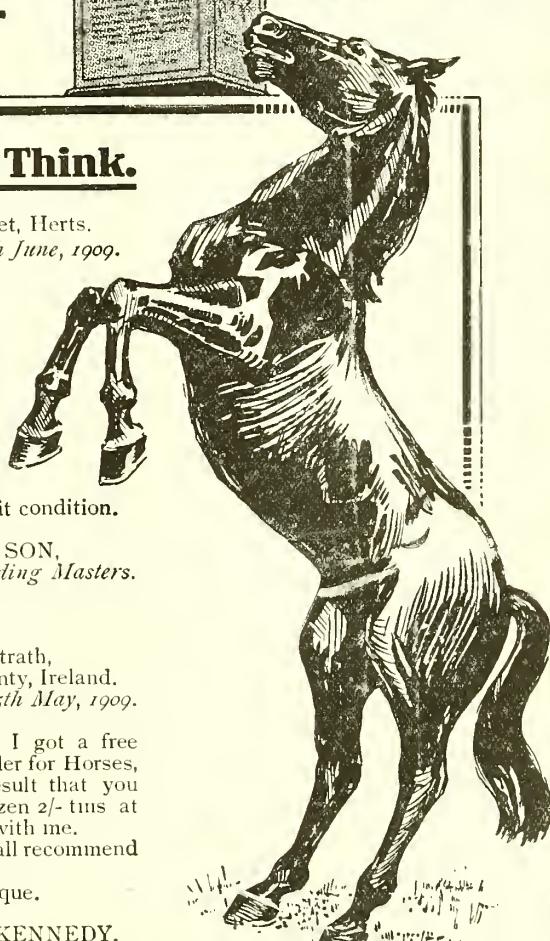
11 High Street, Barnet, Herts.

Messrs. A. JOHN & Co. 8th June, 1909.
54 Piccadilly,
London, W.

Dear Sirs,—Having tested your Condition Powder upon a mare covered with a surfeit, and the result being most satisfactory in every way, we shall be pleased to recommend it to all workers of horses.

It not only removed the surfeit, but produced a fine glossy coat, and put the mare in a thoroughly fit condition.

Yours faithfully,
(Signed) E. WHITE & SON,
Job & Riding Masters.



Raheen, Mountrath,
Queen's County, Ireland.

Messrs. A. JOHN & Co. 15th May, 1909.
London.

Dear Sirs,—A short time ago I got a free sample tin of your Condition Powder for Horses, and I am so pleased with the result that you will oblige me by sending one dozen 2/- tins at your wholesale price as arranged with me.

If as successful as last tin, I shall recommend your Powder to all my friends.

I herewith enclose you my cheque.

Yours faithfully,
(Signed) Rev. M. P. KENNEDY.

AGENCIES STILL OPEN TO CHEMISTS

— without restrictions. Free advertising matter. —

The preparation is being widely advertised in leading papers.

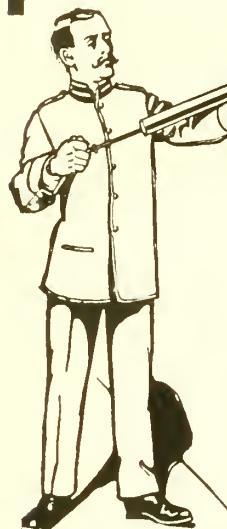
*Wholesale
Depot:*

H. C. JOHN, 54th PICCADILLY, LONDON, W.

By Appointment



to H.M. the King.



Official Reports show that routine
disinfection with

Jeyes' Special Fluid — Cyllin —

banishes school epidemics and thereby greatly
increases school grants.

With a view to the prevention of infectious disease the Bucks Education Committee had the floors of 25 schools sprinkled nightly during the past twelve months with a solution of Jeyes' Special Fluid, the attendance in these schools being compared with that of the remaining schools in which the process was omitted.

The official report shows an improved attendance in the disinfected schools sufficient to earn additional grants amounting to over £50, while the entire cost of disinfection for the twelve months was less than £30.

NOTE.—Jeyes' are the only disinfectants supplied by Royal Warrant to His Majesty the King.

Perticulars of the most efficient method of disinfecting schools can be obtained free on application to
Jeyes' Sanitary Compounds Co., Ltd., 64 Cannon Street, London, E.C.

**Jno. H. Smith & Co.,
Proprietors of FLYODOOMO DOOMOTAPE,**
Newark-on-Trent.

A wide band sticky on both sides, unrolling like a window blind. Will catch ten times more flies than an ordinary tape. Being sticky on both sides, it has a catching surface equal to a fly paper.

6d od. per yard post paid and on receipt of P.A.

FLYODOOMO

sticks to its reputation,
and flies keep up their
reputation of sticking to

FLYODOOMO

Per Gross **5/-** Carriage Paid.

*The old favourite.
Always good stock.*

JNO. H. SMITH & CO.
Doomo Works,
NEWARK-ON-TRENT.

Warmbrunn, Quilitz & Co. BERLIN &
TSCHERNITZ
Germany.

GLASS BOTTLES

of best material (tropical proof)
of every description for

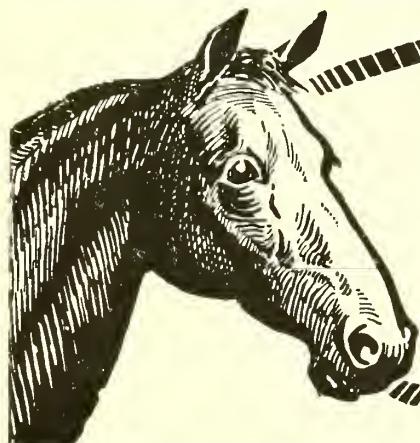
CHEMISTS, DRUGGISTS, PERFUMERS.

Price List & Samples on application.

AGENTS FOR THE EAST . .

HOLZMÜLLER & SCHMIDT,
13 Rue de Sévigné, Paris,

and Calcutta: 11 Pollock Street.



IT PAYS
TO STOCK AND PUSH
HARVEY'S
GREAT REMEDIES
FOR THE HORSE.

Now on the P.A.T.A.
GENEROUS PROTECTED PROFITS.

REDUCINE

An extensively advertised Veterinary preparation with marvellous merit.

Selling Price **10s. 6d.** per tin nett.
Price to the trade, **8s.** per tin nett.
To be had from all wholesale chemists.

MADE ONLY BY
THE REDUCINE COMPANY,

38a SOUTH FREDERICK STREET,
DUBLIN.

"DIAMALT"

= The Purest and Highest
IS Diastasic Malt Extract
= on the Market.

"DIAMALT" with COD LIVER OIL is MATCHLESS.

The "British Medical Journal," November 20, 1909, reported upon eleven leading proprietary malt extracts, the DIASTASIC POWERS being as follows:—

1. 380	4. 366	7. 1060	9. 38
2. 23	5. 86	8. 382	10. 866
3. 39	6. 940		11. 0

No. 7 is DiaMalt, and the complete analysis showed:

Total Solids 74 per cent.
Reducing Sugars (calculated as maltose) Dextrin 12.7 per cent.
63·9 per cent. Ash 1.2 per cent.
Protein 6.52 per cent. Diastasic Power 1060.

See for yourself, by reference to the "B.M.J." of November 20, what the other ten are.

DiaMalt Preparations give the Chemist **30 per cent.** CLEAR PROFIT, secured by the P.A.T.A.; besides, he sells the preparations under a guarantee, thereby enhancing his reputation; and DiaMalt is the Extract which the Medical Profession now know is at the top.

Obtainable from all Wholesale Houses or direct from

THE BRITISH DIAMALT CO., 11 & 13 Southwark St., London, S.E.

OKELL'S ORIGINAL MONA BOUQUET

(First introduced by the late JOSEPH O'KELL).

Registered Trade Mark, "DOUGLAS PIER."

The most popular and best-selling perfume in the market.
Retail Prices ... 1/-, 1/9, 3/6, 6/-, 7/6, 10/6 per Bottle.

ALSO 3d. SAMPLE BOTTLES.

Shippers and Wholesale Buyers supplied on the best terms by
THOMAS WEST & SON, 1187 Chester Road, MANCHESTER,
Stretford, Lancs.

A. MILLAR & CO., LTD., DUBLIN
PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopoeia. (Wholesale only.)
London Agent. JAMES STIRTON, 23 ST. DUNSTAN'S HILL, E.C.

The Law Relating to Poisons & Pharmacy.

By W. S. GLYN-JONES, Barrister-at-Law.

A Complete Exposition of the Arsenic Act, the Pharmacy Acts, and the Poisons and Pharmacy Act, 1908.

This work is of special interest to Pharmacists, and all engaged in the Drug trade, as a guide and helper in daily transactions, and commentary on, and record of interpretations of, this important branch of law.

Published at 10/6 net,

BY

BUTTERWORTH & CO., Law Publishers,
11 & 12 Bell Yard, TEMPLE BAR, LONDON, E.C.

May be obtained from any Wholesale Drug or Sundries House.

The 'Chemist & Druggist' WINTER NUMBER

WILL BE PUBLISHED JANUARY 29th, 1910.

Firms desirous of sending out their Price Lists or Circulars therewith should write **immediately** to THE PUBLISHER, 42 Cannon Street, London, E.C.

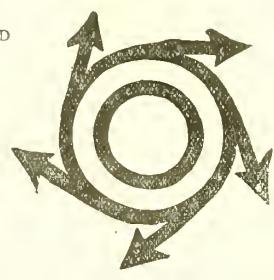
'DARTRING'



TRADE MARK

'DARTRING' BRAND

'DARTRING'



TRADE MARK

Lanoline Products



Reduced Facsimile

Nature's Best Emollient

Prepared with the genuine original 'DARTRING' Brand Lanoline, which was officially indicated as the standard Hydrous Wool Fat in the *British Pharmacopæia Addendum, 1890*.



Reduced Facsimile

SUPPLIED TO THE TRADE AS FOLLOWS:—

- DARTRING' TOILET LANOLINE
issued in collapsible tubes, at 5/- and 10/- per dozen
- DARTRING' LANOLINE COLD CREAM
issued in 2-oz. pots, at 15/- per dozen
- DARTRING' LANOLINE POMADE
issued in 2-oz. pots, at 15/- per dozen
- DARTRING' LANOLINE TOILET POWDER
issued in metal dredgers, at 5/- per dozen
- DARTRING' LANOLINE TOILET SOAP
issued in boxes of three tablets, at 15/- per dozen boxes
- DARTRING' LANOLINE ICHTHYOL SOAP
issued in boxes of three tablets, at 19 1/6 per dozen boxes
- DARTRING' LANOLINE PINE TAR SOAP
issued in boxes of three tablets, at 19 1/6 per dozen boxes
- DARTRING' LANOLINE SHAVING SOAP
issued in sticks, at 8 1/6 per dozen



Reduced Facsimile

SOLE LICENSEES :

BURROUGHS WELLCOME & CO., LONDON (ENG.)

NEW YORK MONTREAL SYDNEY CAPE TOWN SHANGHAI

[COPYRIGHT]

"VASELINE" HAIR TONIC

Delicately perfumed, for preserving and restoring the strength, vitality and beauty of the hair. It will prevent dandruff and keep the scalp clean, sweet and healthful.

1/- size, 9/- doz.; 2/- size, 18/- doz.; 3/- size, 27/- doz.

The word "VASELINE" is the Registered TRADE MARK of the
CHESEBROUGH MANUFACTURING CO., 42 Holborn Viaduct, LONDON, E.C.

The *Lancet* describes it as

"Mr. Benger's admirable preparation."

FOOD FOR INFANTS



WHOLESALE OF

BENGER'S FOOD, Ltd., MANCHESTER,

And all Wholesale Houses and Shippers.

ON THE P.A.T.A. SHOWCARDS & HANDBILLS ON APPLICATION.

The British Medical Journal says:

"Benger's Food has by its excellence established a reputation of its own."

INVALIDS AND THE AGED.

OUR NEW ADDENDA

now in the Press, comprises all the novelties, alterations, and proprietary medicines introduced during this year, and its very interesting contents

WILL HELP YOU

considerably in the selection of lines that will increase your turnover; besides, there is no better time for considering such important items than

IN THE NEW YEAR.

On receipt of a card we will register your name and post a copy when list is ready.

THOS. CHRISTY & CO.
4 TO 12 OLD SWAN LANE. UPPER THAMES STREET, LONDON, E.C.



A Weekly Journal of the Chemical and Drug Trades,
and of
British Pharmacists throughout the Empire,
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is the leading Journal addressing the chemical and drug trades of the British Empire. It is adopted as an official journal by seventeen Chemists' Societies in Australia, Ireland, New Zealand, South Africa and the West Indies, and its paid-in-advance circulation in Great Britain and all Countries having business relations with the British Empire is intrinsically and numerically unique.

Subscription Rates.

Ten shillings a year in advance, post free to any part of the world, including a copy of *The Chemists' and Druggists' Diary* next published. Subscriptions may begin any month. Single copy, 6d.; Summer or Winter Number, 1s. *Diary*, 8s. 6d. Postal orders and cheques to be crossed "Martin's Bank (Limited)."

Prix de l'abonnement annuel: le journal une fois par semaine, et l'agenda une fois par an, 12-60 francs, franco.

Jährlicher Abonnementspreis: die Zeitung einmal wöchentlich, und der Notizzettel einmal im Jahre, 10 Mark, postfrei.

Precio de suscripción anual: el periódico una vez por semana, y el agenda una vez por año, 12-60 pesetas, franco.

Terms for advertising in THE CHEMIST AND DRUGGIST can be obtained on application to the Publisher at the

Head Office: 42 CANNON STREET, LONDON, E.C.

• Telegrams: "Chemicus London." Telephone 852 Bank (two lines).

Branches: ADELAIDE, MELBOURNE, AND SYDNEY, AUST

CONTENTS: Vol. LXXV., No. 26 (Series No. 1561).

PAGE	PAGE
Agri - Horticultural Licences <i>Col. Supp.</i>	India and the East 956
Australasian News 954	Information Department 962
Bankruptcy Reports 959	Irish News 953
Births 962	Kensington Pharmacy 960
B.P.C. Research List 966	Legal Reports 958
Business Changes 961	Marriages 962
C. & D. <i>Diary</i> , 1910 966	New Companies and Company News 959
Canadian News 956	Observations and Reflections 963
Candidature of Mr. Glyn-Jones 967	Personalities <i>Col. Supp.</i>
Chemical Society 971	Pharmaceutical Society of Cape Colony 956
Chemists' Calendars <i>Col. Supp.</i>	Pharmaceutical Society of Great Britain:
Christmas Holidays 951	North British Branch 969
Corner for Students 950	Poisonings <i>Col. Supp.</i>
Correspondence:	Practical Notes 968
Letters 977	Romance in the Pharmacy 957
Dispensing Notes 979	Scientific Progress <i>Col. Supp.</i>
Legal Queries 979	Scots News 955
Miscellaneous Inquiries 980	Sir Edward Evans 957
Deaths 962	South African News 955
Deed of Arrangement ... 959	Trade-marks Applied for 968
Editorial Comments:	Trade Notes 960
South African Union... 964	Trade Report 974
Java Cinchona Syndicate 965	Wills, Recent 962
Notes 966	Winter Session of Chemists' Associations ... 972
English and Welsh News 951	
French News 953	
Gazette 959	

EFFECTIVE PUBLICITY.

THIS is the title of a handsome circular produced by our Publisher, which he will send to any business house on application. It is about the advisability of manufacturers' own circulars and price-lists being inserted as insets in THE CHEMIST AND DRUGGIST Winter Issue, to be published on January 29, 1910. The following is an extract from it:

C. & D. insets are a popular feature of special issues, and they increase in favour annually. They include price-lists, circulars, illustrated catalogues, and other advertising literature in various styles of printing and colourwork. These, and the other contents of the Winter Issue of January 29, 1910, will be carefully studied by responsible traders at home and abroad.

We undertake to distribute among those traders who are actual buyers, and the most convincing advertisement—Inset or otherwise—will bring the best results.

A fact to be remembered is that in January stocks are being replenished for the year. This is the prime opportunity for new goods, and the firm presenting the most attractive argument secures the order.

As to the rest, please write to the Publisher, 42 Cannon Street, London, E.C.

Summary of the Week.

Articles and Communications.

A Merry Christmas to all our readers.

Medical men are increasing in Great Britain faster than the population (p. 965).

Mr. W. B. Cowie's notes on p. 968 are about zinc oleate, citric acid, and tartaric acid.

Mr. C. T. Kingzett challenges "The Lancet's" conclusions in regard to disinfectants (p. 978).

A revised research list has been prepared by the British Pharmaceutical Conference, and is suggestive to young workers (p. 967).

An illustrated description of Mr. J. F. Harrington's new pharmacy in Kensington contains some suggestions for those who may be refitting (p. 960).

The Exeter Pharmacists' Association communicates to us the text of a letter which it is sending to Parliamentary candidates. It may give points to other local associations (p. 952).

Mr. Chas. A. Hill insists (and Mr. T. Maben supports him) that oil. amygdalæ persic. is a misleading name for apricot and peach kernel oils. He wants the "amygdalæ" to be dropped (p. 977).

Dr. Dobbin reports on the salt sent out to students in November. Mr. Lightbown, of Tynemouth, and Mr. Crawford, of Newcastle, secure the prizes. Applications for another salt may now be sent in (p. 950).

It is proposed that the pharmacy laws of Cape Colony, Natal, Orange River Colony, and the Transvaal should be codified (p. 955). We suggest that when this is done there should be a Board of Pharmacy for the Union and a Board of Examiners for each colony (p. 964).

General News.

Mr. Frank Armstrong, of "Muter's," died on Tuesday (p. 962).

Spurious apomorphine has appeared on the Continent (*Col. Supp.*).

North-East Lancs chemists want legislation about "pharmacy" (p. 973).

There is risk to chemists even in dressing a wounded finger. A case is reported on p. 958.

Company pharmacy has come into the Canadian Courts for decision as to its legality under pharmacy law (p. 956).

A case arising from the dismissal of an indentured apprentice to a chemist throws light on the law of this subject. See p. 958.

Rumex Ecklonianus, a South African herb, has been examined by Wellcome research chemists, and their report is on p. 971.

The New South Wales Pure Food Regulations now require that medicines containing certain ingredients shall have the names and quantities thereof on the labels. See full list on p. 954.

The Prime Minister, on behalf of the Liverpool Liberal Association, on Tuesday presented Sir Edward Evans with his portrait, Lady Evans at the same time receiving a diamond pendant. The proceedings are reported on p. 957.

Mr. Herbert Samuel was the principal speaker at a public meeting of the electors of Stepney at which Mr. Glyn-Jones presided. Mr. Samuel said that the passage of the Poisons and Pharmacy Act was due to Mr. Glyn-Jones, and he supported his candidature (p. 967).

The North British Branch of the Pharmaceutical Society is ahead of Bloomsbury in evening-meeting attractiveness. The meeting reported in this issue discussed syrup of Virginian prune (papers by Dr. Hallaway and Mr. Umney), physiological standardisation (Dr. Hallaway), scammony resin (Mr. Cowie), and coloration in a phenazone mixture (Mr. T. Wilson). See pp. 969-971.

Trade Matters.

The latest developments regarding the Java Cinchona Syndicate are discussed on p. 965. The Java Government plantations are to reduce their output of bark by 500,000 kilos. next year.

Already a holiday tone has been apparent in the markets, and next week there will be practically nothing to report. Changes, which have been few, include an advance in menthol and a firmer tendency in quinine. Lemon and bergamot oils are a shade better. Quicksilver in second-hands is easier (p. 974).

Corner for Students.

Conducted by Leonard Dobbin, Ph.D

All communications for this section should be addressed thus : "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Reports on November "Salt."

THE powder distributed to students on November 24 contained five parts by weight of barium acetate, four parts of magnesium hydroxy carbonate, and one part of sodium pyroborate. The calculated composition of such a mixture is :

Ba	...	...	...	...	...	25.1
Mg	...	...	...	...	...	10.2
Na	...	...	...	...	...	1.2
C ₂ H ₃ O ₂	...	...	...	...	...	21.6
CO ₃	...	...	...	...	...	18.8
B ₂ O ₃	...	...	...	...	...	4.1
OH	...	...	...	...	...	3.5
H ₂ O	...	...	...	...	...	15.5
						100.0

The powder also contained, as impurities, a small quantity of the sulphuric-acid radical and recognisable traces of calcium and potassium and of a chloride.

Samples of the powder were distributed to forty-two students, and twenty-four reports were sent in for examination. The failures in the detection of the several constituents of the powder were :—(a) Metallic radicals : Barium, 2; magnesium, 1; sodium, 6. (b) Acid radicals : Acetic, 13; carbonic, 2; boric, 15. The presence of the sulphuric-acid radical was recognised by only a very few students.

When a small quantity of the powder was gently heated in a moderate-sized dry test-tube, lightly closed by the thumb, deposition of moisture dimmed the cool upper part of the tube and indicated the probable presence of water of crystallisation. On heating somewhat more strongly, partial melting took place, succeeded by a slight darkening, which spread through the substance, and then gradually diminished, so as to leave a grey residue. The evolution of water was not very generally reported, and the total quantity being small, it is probable that in cases where too small a tube was used, or when the open end was not partially closed, it was almost entirely driven out in the form of vapour and so escaped observation. The subsequent darkening was a more striking occurrence, and it is not easy to account for its being passed over unnoticed in quite a number of cases. Several of those who did observe it attributed it to the decomposition of an oxalate (which the behaviour very closely resembled), and a few were led into concluding, upon this evidence alone, that an oxalate was present. Accompanying the darkening, which was really due to the decomposition of the barium acetate, the evolution of vapour of acetone took place, and several students recognised this and concluded correctly as to its origin.

The very large proportion of failures to detect the boric and acetic acid radicals is a noteworthy feature of this analysis. The fact that considerably more than half of our correspondents failed to detect the former of these radicals in a mixture which contained it to the extent of 4 per cent. proves that the highly characteristic tests for borates had not been applied in a delicate manner. A few students, it is true, failed to find the borate because they omitted to test for it, but many failed who did apply one or other of the special tests. The acetic-acid radical was present in large proportion, and as the odour of acetic acid was very distinctly perceptible when the powder was gently heated with dilute sulphuric or hydrochloric acid it is difficult to understand why it remained undetected in so many cases.

The magnesium hydroxy carbonate used in preparing the mixture contained (as the commercial article usually does) a small quantity of sulphate, and when the powder was treated with dilute hydrochloric acid, with a view to preparing a solution, a corresponding quantity of barium sulphate was produced. Although it is a very sparingly soluble substance, barium sulphate is nevertheless not absolutely insoluble in dilute acids; and in the present instance it was quite easily possible, when very little of

the powder was boiled with 20 c.c. or 30 c.c. of dilute hydrochloric or nitric acid to obtain a perfectly clear solution. It was in consequence of this behaviour that the majority of our correspondents did not observe the formation of a difficultly soluble substance, and so were not led to suspect that traces of a sulphate might be present.

In the systematic analysis a few students noticed the formation of a slight white precipitate when ammonium chloride and ammonia were added with a view to precipitate any iron or aluminium, and nearly all of those who observed it supposed that it consisted of aluminium hydroxide. It really consisted of sparingly soluble barium borate, and illustrated one of the complexities introduced into the precipitates of the iron group by the presence of a disturbing acid radical.

PRIZES.

The First Prize for the best analysis has been awarded to

W. H. LIGHTBOWN, 7 Albury Park Road, Tynemouth.

The Second Prize has been awarded to

ROBERT C. CRAWFORD, c/o F. R. Parker, 130 Westgate Road, Newcastle-on-Tyne.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

MARKS AWARDED FOR ANALYSES.

1. Correspondents who are unqualified:

W. H. Lightbown (first prize)	...	A. F. Spes	...	...	...	75
Robert C. Crawford (second prize)	...	Ulula	...	...	...	72
Malvoline	...	Dido	...	...	...	71
Neptunia	...	Protandry	...	...	...	67
Ariadne	...	Aspirin	...	...	...	66
Validol	...	Jack	...	...	...	54
Litmus	...	Pharmacy	...	...	...	54
R. C. P.	...	Xtal	...	...	...	28
	78	Vol	...	...	...	24

2. Correspondents who are qualified:

Boiling Point	...	Labore	...	...	...	62
Cobalt	...	Radium	...	...	...	83
Keiro	...	Xenon	...	...	...	70

To CORRESPONDENTS.

MALVOLINE.—By tests similar to those you applied we failed to get any indication of the presence of calcium, while spectroscopic examination only indicated a faint trace.

ARIADNE.—The mixing of the ingredients of the powder was most thoroughly carried out so as to ensure homogeneity. We found it easily possible to obtain a perfectly clear solution of a small quantity of the powder in a moderately large quantity of boiling dilute hydrochloric acid or in a much smaller quantity of boiling dilute nitric acid. See the general remarks.

R. C. P.—Although the stated results of your analysis are nearly correct, your very slender report does not lend sufficient support to your conclusions. A more exhaustive report would have merited considerably higher marks.

SPES.—You are under a misunderstanding in supposing that only B.P. salts may be present in our mixtures for analyses; no such undertaking is either stated or implied in the announcements of these exercises, *q.v.*

PROTANDRY and ASPIRIN.—You will probably be surprised to note the large proportion of the barium which you regarded as "a trace."

JACK.—Barium chloride as a group reagent for acid radicals is not of much use in indicating the presence or absence of borates in dilute solutions. You state that the addition of mercuric chloride to a hydrochloric-acid solution of the powder produced a red precipitate, which indicated a carbonate. If you will add mercuric chloride to a hydrochloric-acid solution of, say, magnesium carbonate, the result may convince you that you should have tried the reaction you report before writing it down.

Vol.—From the earlier part of your report we were inclined to think that you were describing, by mistake, the analysis of some mixture altogether different from the one sent you, whereas the later part showed that you were merely describing reactions which did not and could not take place. Thus, when you write, in describing confirmatory tests for barium :—"A solution of the salt in HCl gives with K₂CrO₄, a ppt. soluble in HCl, insoluble in HC₂H₅O," the impossibility of

this being a record of fact ought to have been palpable even to yourself.

BOILING POINT.—There are numerous points about your analysis which we cannot understand; for example, your failure to note the rather striking darkening which occurred at a certain stage when the powder was heated in a dry test-tube, your failure to confirm the presence of a borate which seemed to be indicated by one characteristic test, also several other occurrences equally unusual in your case.

RADIUM.—As the powder contained only the merest trace of a chloride, the dense curdy precipitate you obtained on adding silver nitrate to a nitric-acid solution must have been due to some chloride introduced during your analysis. Your surmise as to the probable nature of the precipitate which you at first took for aluminium hydroxide was quite correct.

XENON.—The white precipitate which you obtained on adding an aqueous extract of the powder to a solution of magnesium sulphate, and which you supposed to indicate the presence of a carbonate, consisted of barium sulphate. This is an excellent illustration of the general inapplicability (frequently referred to in the "Corner") of this reagent for the purpose for which you employed it. We cannot suggest any reason for the insolubility in acetic acid of a precipitate which we suppose, from what you say as to its origin, consisted of calcium borate; but, on the other hand, we failed to obtain your result on following the procedure you describe, as, in our hands, the precipitate dissolved immediately in acetic acid.

NOTE.—The analytical exercise for January will be announced next week.

Christmas Holidays.

The offices of THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C., will be closed from Friday, December 24, at 12 noon, until Tuesday morning, December 28. Home subscribers are requested to note the following intimation as to closing by manufacturers and wholesalers:

Allen & Hanburys, Ltd., Bethnal Green, London, E.—Closed from December 25 to 27 inclusive. During that time small urgent orders can be executed at their wholesale depôts in Plough Court, City, and Vere Street, W.

British Drug Houses, Ltd., Graham Street, City Road, London, N.—Closed on Christmas Day and Boxing Day; also on Thursday and Friday, December 30 and 31 (for stock-taking), when urgent orders only will be executed.

Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.—Offices, warehouses, etc., closed from the evening of December 24 to the morning of December 28.

Chemists' Co-operative Wholesale, Laburnum Street, Kingsland Road, London, N.E.—Closed from December 25 to 28 inclusive, also on December 31 and January 1 (for stock-taking).

Thomas Christy & Co., Old Swan Lane, Upper Thames Street, E.C.—Closed from Friday, December 24, at 1 P.M., until the morning of December 28.

Jules Denoual & Co., Carlton Works, Asylum Road, London, S.E.—Factory and offices closed from evening of December 24 to Tuesday morning, December 28.

Evans, Gadd & Co., Ltd., Exeter and Bristol.—Closed Christmas Day and on December 27.

C. J. Hewlett & Son, Ltd., 35 to 42 Charlotte Street, London, E.C.—Closed Christmas Day and Boxing Day, and on December 28 and 29 (for stocktaking). Only urgent orders will be attended to on the latter days.

T. Howard Lloyd & Co., Leicester.—Offices and warehouse will be closed from Friday evening, December 24, until Tuesday morning, December 28.

S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C.—Closed from Friday, December 24, at 1 P.M., to Tuesday morning, December 28, and on December 30 and 31 (for stock-taking).

May & Baker, Ltd., Battersea, London, S.W.—Closed Christmas Day and Boxing Day, and on December 30 and 31 (for stocktaking).

F. Newbery & Sons, Ltd., Charterhouse Square, London, E.C.—Closed on Christmas Day and Boxing Day, and on December 30 and 31 (for stocktaking).

Parke, Davis & Co., Beak Street, Regent Street, W.—Closed from 1 P.M. on Friday, December 24, until Tuesday morning, December 28.

Raines & Co., York.—Closed on Christmas Day and Boxing Day.

T. & H. Smith, Ltd., 22 City Road, E.C.—Warehouse and office closed from Friday evening, December 24, until Tuesday morning, December 28.

Wright, Layman & Umney, Ltd., Southwark Street, London, S.E.—Closed on December 25 and 27, and again on December 30 and 31 (for stocktaking).

English and Welsh News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

The first Christmas lecture at the Royal Institution, Albemarle Street, Piccadilly, W., on "Modern Electricity," by Mr. W. Duddell, will be given on December 28 at 3 o'clock.

A sum of nearly 8*l.* has been realised in aid of local charity as the result of a gramophone concert organised by Mr. T. Bentley, Hon. Secretary of the North Staffs Chemists' Association.

Mr. Charles Sanders, chemist and druggist, late of Burton Road, Derby, has been granted a transfer of the off-lodging attached to the business carried on by the late Mr. L. H. Brown, chemist and druggist, at Coningsby, near Hornsby.

The whist-drive organised by the Manchester Pharmaceutical Association will take place on January 19 (not January 12, as mentioned in *C. & D.* last week). Tickets, 3*s.* each, may be had from Mr. J. Grier, M.Sc., the University, or Mr. W. Griffiths Hughes, 17 Deansgate.

The following chemists are taking part in the window-dressing competition being held at Darwen this week: Messrs. W. Standen, Boots, Ltd., and J. W. Butterfield, Market Street; E. Jepson, Duckworth Street; W. H. Lomax, Church Street; R. Shorrock, Market Street and Duckworth Street; J. Walmsley, Blackburn Road.

As a result of a levy for distress a dining-room suite in mahogany and a table, the property of Mr. George Kingerlee, chemist and druggist, Buckingham, were offered at auction in the Market Square on December 20. Mr. M. W. Meehan made the only bid of 5*l.* 5*s.*, which was the total amount required to cover the fine and costs imposed upon Mr. Kingerlee in the Banbury Police Court on November 15 in respect to defective drains on his property. The goods were removed back to Mr. Kingerlee's residence.

Mr. Shirley Knows about Boxes.

During the hearing of an action in the Shoreditch County Court on December 17, before Judge Smyly, K.C., having reference to the making of some turned-wood boxes for holding bottles of ink, Mr. Arthur Shirley was called on behalf of the plaintiff as an expert witness as to the quality of the work turned out. He was cross-examined by Mr. Jobson, counsel for Messrs. Mabie, Todd & Co., 79-80 High Holborn, W.C., the defendants. Mr. Jobson: What are you? Witness: We are wholesale druggists. Mr. Jobson: Do you know anything about boxes? Witness: A little, I think. Mr. Jobson: Do you have much to do with boxes? Witness: A little. Mr. Jobson: What is your particular line?—pill-boxes, I suppose, of the cheapest make. Witness: No, we go in for menthol. Mr. Jobson: These threepenny cones, I presume? Witness: You are presuming. No, I do not mean threepenny articles—we go up to half-a-crown, and sell a good many. Mr. Jobson: Yes, yes, but a few gross a year, I presume—nothing upon which you can base an opinion as to the quality of these boxes. Witness: We are the largest makers of menthol cones, and our output runs to something like 5,000 to 6,000 gross a month. Mr. Jobson (with a gasp): A month? Witness: That is what I said; and as I do all the ordering of the boxes I get a very fair idea of quality. Mr. Jobson (sitting down): Oh! I have nothing more to ask. (Laughter.) Mr. Shirley maintained that the boxes should never have been refused by the defendants.

Whist.

Messrs. Parke, Davis & Co. gave a very successful social evening to their staff at the Heston Council House on December 11, when about 200 guests enjoyed the programme, consisting of a whist-drive, dancing, and vocal music. Mr. R. C. Brown, works manager, occupied the chair. The prizes for whist were distributed by Mr. H. J. Fisk, assistant manager, to the following winners: *Ladies*—(1) Miss A. Phillips, (2) Miss N. E. Piercy, (hidden number) Miss N. B. Piercy, (consolation) Miss Latrille. *Gentlemen*—(1) Mr. C. Ford, (2) Mr. J. Cooper, (hidden

number) Mr. G. T. Walker, (consolation) Mr. T. Harris. After a letter had been read from Mr. F. M. Fish regretting his inability to be present, a hearty vote of thanks was awarded to Mr. H. J. Fish and Mr. R. C. Brown for their services. The following artistes contributed to the musical programme : Misses Ashfold, Hogg, Walker and E. Walker, Messrs. Cromwell, Everest, Everitt, Savage and Seaton.

Birmingham Notes.

Messrs. Marshall Bros. are exhibiting scissors, cutlery, and other instruments used in the feminine toilet.

For stealing twenty-five tablets of soap from Messrs. Kynoch, Ltd., Aston, two employés, who had not been in trouble before, were bound over.

Boots, Ltd., have a remarkable display of toilet goods in their New Street shop-windows and a liveried man at the door distributing handbills concerning their diaries.

Messrs. Southall Bros. & Barclay, Bull Street, have a faintly display of their special cod-liver oil in one window and a lesson in perfumery and flowers in the other, which attract considerably.

A Gooch Street herbalist has taken passers-by by storm with his unique window-dressing. The theme is Cook and Peary with the North Pole in true arctic and shivering fashion. The Pole is a large specimen of the root of *Bryonia dioica*, but suspended hard by is a miniature copy of a human skeleton.

A characteristic view in Sutton Coldfield Park by the daughter of Mr. T. B. Cattell, chemist, Sutton Coldfield, who cultivates a photo business, has been published by Mr. Cattell as a picture postcard. It is a beautiful card, and many people are using it and other Cattell cards instead of ordinary Christmas cards.

A local paper recommends for chilblains :

Lin. bellad.	...	...	...	3 <i>s.</i>
Lin. aconiti	...	...	...	3 <i>s.</i>
Phenol.	...	...	...	3 <i>s.</i>
Collod. flexile ad	...	...	...	3 <i>s.</i>

Paint the part with this by the aid of a small brush. Omit the aconite if skin is broken.

Contracts.

Reading Guardians.—Bradley & Bliss, Reading, for the year's supply of drugs.

Hull Guardians.—Mr. T. W. Robinson, chemist and druggist, Hull, for the supply of drugs.

Métroplitan Asylums Board.—North British Rubber Co., Ltd., for bulk supplies of waterproof sheeting.

Guisborough Urban Council.—Mr. J. W. Frank, chemist and druggist, Guisborough, appointed chemist for six months.

The Eton Rural District Council has decided to obtain the supply of disinfectants from the Windsor Corporation at 1*l.* 18*s.* per ton. The Council has paid previously 5*l.* 2*s.* 6*d.* per ton.

The General Election.

The Exeter Association of Pharmacists has sent the following letter to the candidates for the representation of the City of Exeter in the House of Commons :

We, the undersigned members of the above Association and electors of the city of Exeter, beg to ask your attention to the following facts:

In the interests of public health and safety the practice of pharmacy has been regulated by several statutes enacted since the year 1852, and in particular the use of titles implying competency to practise this calling has been restricted to persons who have proved their qualifications for so doing. The latest statute dealing with the subject is the Poisons and Pharmacy Act, 1908, which enacted, *inter alia*, that the title "pharmacist" should be used only by those who had been registered under the Pharmacy Acts, thus ensuring that wherever the title "pharmacist" was exhibited at a place of business, such business was necessarily under the control of a person of proved competence, to whom the dispensing of physicians' prescriptions and other duties appertaining to this calling might safely be entrusted. It would seem to follow from this that the description of a place of business as a "pharmacy" would imply that such place was under the control of a pharmacist. If this were not so the public would be liable to be misled. No such provision, however, appears directly in any of the Acts, and on October 28 last, in a case heard in the Divisional Court, it was decided that a person

who was not a pharmacist but who retailed and compounded drugs at a shop which he described as "The Pharmacy" was not liable to any penalty for so doing. To amend this anomaly, it is proposed that a Bill should be introduced into the next Parliament, having as its main object a clause to the effect that any premises in which the business of a chemist and druggist is carried on in accordance with Section 3 of the Poisons and Pharmacy Act, 1908, may be described as a pharmacy, but any person, company, or partnership using such description for any premises not so conducted shall be subject to the penalties provided by Section 12 of the Pharmacy Act, 1852, and Section 15 of the Pharmacy Act, 1868. We shall be glad to know if, in the event of your being elected as the member of Parliament for the city of Exeter, you would be prepared to support such a Bill.

The National Chamber of Trade has drawn up a series of questions on trade matters for submitting to Parliamentary candidates. These include demands for a Select Committee to investigate the method of taxing industrial and provident societies on the same basis as traders, reform in local rating, permission to purchase telephone exchanges by local authorities, support of the Shops (No. 2) Bill, reform of the Inhabited House Duty, local registration of firms, and the holding of Parliamentary elections on one or two days. The candidates are also asked to oppose the cash-on-delivery postal system and the abolition of imprisonment for debt.

Fires.

Considerable damage was caused to the branch at 313 Lavender Hill of Parke's Drug-stores, Ltd., by the big fire which gutted Messrs. Arding & Hobbs' stores at Clapham Junction on December 20.

A serious conflagration originated in the stores at the rear of the premises of Messrs. Sturton & Howard, chemists, Fore Hill, Ely, Cambs., on December 14. This portion of the building was gutted, much stock being destroyed.

Mr. Léon Schouwer, chemist and druggist, had his life seriously endangered during a fire on his premises at 63 Rice Lane, Walton, Liverpool, on December 21. He was awakened by a smell of burning, and on opening the bedroom door he was met by dense smoke rolling up the staircase. He gave the alarm to a police-constable, but before the fire brigade arrived a police sergeant made his way upstairs and found Mr. Schouwer lying on the floor unconscious. He was removed to the Stanley Hospital. The fire brigade succeeded in confining the outbreak to the room at the back of the premises in which it originated.

Drug-stores' Auction.

The stock and fittings of the Norbiton Drug Stores at 57 Park Road, Kingston-on-Thames, were offered for sale by public auction on December 17 by order of the County Court. Several local pharmacists were included among the fair gathering of prospective buyers, and fair prices were obtained for the sundries and patents, of which the following are examples :

Twenty-two bottles of benzine (1*½* oz.), 3*s.*; 18 tins assorted foods, 7*s.*; 97 various soaps, 8*s.*; hand-camera and stand-camera ($\frac{1}{2}$ -plate), 15*s.*; a new V.D. vibrator, 9*s.*; 80 assorted tablets and tabloids, 6*s.*; 148 Ashton & Parsons' pilules and tinctures and 16 packets of herbs, 5*s.*; one gross of teats and feeder-tubes, 4*s.*; 2 pill machines (5 gr. and 3 gr.), 4*s.*; 25 bottles of Blaud's pills (1 gross), 4*s.* 6*d.*; 12 3-lb. olive-green shop jars and contents, 13*s.*; the contents of about 40 shop drawers, 5*s.*

The window enclosure, fitted with nine plate-glass shelves, went for 3*l.* 15*s.*; the counters, fitted with drawers underneath, were knocked down for 2*l.* 5*s.*; and the counter-case for 12*s.* The shelving and shop drawers sold for 6*l.*, and a wall-case fetched the same sum.

Football.

London Essence Co. F.C. v. Kops Brewery F.C.—This match was played at Nunhead on December 18. The Essence team opened the scoring through T. Brown soon after the start, but Kops soon equalised with a penalty taken by S. Clayton, while the same player gave the Brewery the lead just before the interval. Upon the game recommencing, the Essence men soon equalised through Bilson. Play then became fast, with the Essence Co.

pressing continuously. However, just before time, S. Clayton scored again from a breakaway, the final scores being Kops 3, Essence Co. 2. The Brewery team were the weightier side, and the heavy ground told in their favour. The Essence Co.'s team proved very fit, to the credit of their trainer, Mr. H. A. White, the manager.

Police-court Cases.

At Old Street Police Court, on December 16, six of the seven prisoners charged with stealing a safe from the sub-post-office at 84 Goswell Road (*C. & D.*, December 18, p. 920) were committed for trial, the other one being discharged.

At Carlisle, on December 17, the charge against Arthur Edwin Eckersley, apprentice, of stealing 7*l.* from his employer, Mr. Anthony Nichol, Ph.C., Carlisle, was withdrawn. Mr. Nichol's solicitor stated that circumstances as to the lad's distress had come to the knowledge of his client, who accordingly asked leave to withdraw the charge. Mr. Nichol was willing to take the youth back into his employment. The Bench acquiesced in the application.

Irish News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

The South Dublin Guardians at their meeting on December 15 appointed Mr. M. F. Fitzpatrick, pharmaceutical chemist, compounder in the workhouse, at a salary of 80*l.* a year, rising to 160*l.* Three applications were received for the position, but Mr. Fitzpatrick was elected unanimously.

At the last meeting of the Governing Body of the Dublin Royal Hospital for Incurables, Messrs. Hayes, Conygham & Robinson secured the year's contract for chandlery, Messrs. Boileau & Boyd that for drugs, medicines, etc., and Messrs. Fannin & Co. that for surgical dressings.

Mr. James Dale, pharmaceutical chemist, Dromore, Co. Down, had a large advertisement in the "Dromore Weekly Times" referring to his Christmas display and enumerating the special lines suitable for gifts. He informs us that this, combined with an effective window-display, has had the desired effect of "pulling" trade.

As the result of a destructive fire which broke out on December 17 at Kingstown in a shop opposite to Messrs. Hamilton, Long & Co.'s pharmacy, Lower Georges Street, the windows of the latter concern were melted by the intense heat. Mr. Faichney, pharmaceutical chemist, the manager, rendered valuable aid by telephoning for the fire brigade.

Scots News.

Local Newspapers containing marked items of news interesting to the Trade are always welcomed by the Editor.

Brevities.

Christmas and New Year goods are selling well and business generally is good in the West.

Glasgow pharmacists are highly pleased with the *C. & D. Diary*, and say that it is a *sine qua non*.

Thieves broke into the pharmacy of Mr. Duff, Strathmartin Road, Dundee, one night last week, and stole over 6*l.* in cash.

Mr. Peter Young, Mr. Charles Young, and Mr. Charles Young, jun., chemists and druggists, 46 and 145 Ann Street, Dundee, have dissolved partnership, Mr. Peter Young and Mr. Charles Young retiring. Mr. Charles Young, jun., will continue the business.

Mr. Francis Melrose, chemist, Methil, Fife, has been installed R.W.M. of Lodge Balfour Melville, 809. He afterwards presided at the celebration of St. John's Festival in the White Swan Hotel, when he was spoken of in high terms by Captain Moodie, P.M.

The funeral of ex-Bailie James Paterson took place on Wednesday, December 15, at Allenvale Cemetery. It was private, but the Aberdeen Pharmaceutical Association was

represented by Mr. Wm. Giles, and Mr. Chas. Simpson was present as a friend of the family. A handsome wreath, "In affectionate remembrance from the members of the Aberdeen Pharmaceutical Association," was laid upon the bier.

Edinburgh.

The year closes busily, yet quietly, for the "Dispatch" letter-writers have now altogether ceased from troubling.

Some very fine perfume windows tempt prospective purchasers this week. Most of the city chemists have bright shows. It is unfair to particularise, perhaps, but Messrs. Gibson & Co.'s display in their Leith Street pharmacy is well worth the trouble and care that must have been bestowed upon it.

On Monday evening, December 20, under the auspices of East Edinburgh Unionist Association, Mr. Victor Wright, chemist and druggist, delivered in Arthur Street Church Hall a lecture, illustrated by limelight views, entitled "The Historic Mile." Mr. Wright has a unique collection of lantern-slides of Old Edinburgh, all made by himself. Many of the quaint old corners these represent have now been swept away in the march of progress.

A Banff chemist used to complain of a lady who pulled the night-bell furiously at a late hour one December evening. She had forgotten some spices for her "Yule bread," and the knowledge of what she lacked only came when she was busily baking, long after her family had gone to bed. Edinburgh chemists are not much troubled that way, but in one district sugar of aniseed has been the pharmacists' bane lately. During the busiest time last Saturday a harassed pharmacist was asked at least half-a-dozen times for "a pennyworth of sugar of aniseed." Possibly some "Answers to Correspondents" column is responsible for those temporary crazes, as sacch. anisi usually sells at the rate of 4 oz. per annum.

French News.

(From the "C. & D." Paris Correspondent.)

COLOURING-MATTERS FOR ARTICLES OF FOOD.—The Minister of the Interior has addressed a letter to the Paris Academy of Medicine asking for a scientific expression of opinion regarding the use of colouring-matters in articles of food, syrups, and liqueurs. The subject has been referred by the Academy to its Section of Hygiene. It is of interest to note that this is another result of the present White Cross Congress in Paris.

ALCOHOL FOR SCIENTIFIC LABORATORIES.—M. Cazeneuve, Senator of the Rhone Department, has addressed to the French Minister of Finance a letter in which attention is drawn to the difficulties made by the Excise authorities regarding alcohol required for experimental purposes in the various scientific laboratories of faculties and colleges, while the Treasury is deprived of a large sum annually by the privilege accorded to distillers of alcohol for home use.

PARIS SOCIETY OF PHARMACY.—At this month's meeting M. Grimbart was elected Vice-President for 1910, and M. Dufau Secretary for the same term. The President (M. Patein) gave an account of a visit made by a delegation of the Society to the Minister of Public Instruction regarding the nomination of a permanent commission to have charge of the Codex Française. M. Patein announced that the Minister approved of the suggestion and promised to give it every consideration.

ACTRESS AND ACONITE.—Dr. Henri de Rothschild's latest play, "La Rampe" ("Facing the Footlights"), has had a successful run at the Gymnase Theatre. The final and most striking incident is the suicide of the heroine. Poisoning scenes in dramas and novels are often notoriously untrue to nature; but the fact that this piece is written by a practising M.D. is a guarantee to the spectators that the effects of a *petit verre* of aconite are accurately depicted by Mlle. Brandès, although it is possible that the average lady actress dies on the stage in a less graceful and affecting attitude.

CUSTOMS TARIFF.—A few days ago M. Jean Dupuy, the French Minister of Commerce, spoke at a meeting here of the Confederated French Chambers of Commerce

abroad. He expressed his appreciation of the need of using the utmost care in the revision of the various items of the French Customs Tariff, with a view to avoiding extremes, which might lead to retaliatory measures being taken by foreign countries. The Minister stated that the revised tariff now before Parliament here was not due to the initiation of the Government, and as regards himself personally he desired to be guided by the best interests of France. M. Dupuy also referred to the supplementary specialisations which figure in the new tariff, and expressed the opinion that they had become necessary by reason of various developments which cannot be ignored. The discussion of the new tariff has now been before the Chamber of Deputies nearly two months, but is only dealt with on two days of the week, and consequently the progress has been slow. It is thought that the Chamber will have terminated the debate on the tariff early in January, and it will then go before the Senate, and to this Court of Appeal manufacturers and others who are not satisfied with the measures voted by the Lower Chamber are now preparing to address their protests and memorials.

Australasian News.

The fullest information regarding the Australasian drug-trade and pharmacy is given in "The Chemist and Druggist of Australia," copies of which can be obtained at 6d. each, post fr., from the office of "The Chemist and Druggist," 42 Cannon Street, London, E.C.

New South Wales.

PURE-FOOD REGULATIONS.—A revised Regulation 38, which is given in the "Gazette" of November 3, repeals that published on July 28. The complete regulation is as follows :

Declaration of Certain Drugs.

1. There shall be attached to every package which contains any of the substances, or preparations, derivatives, or alkaloids of any of the substances named in this Regulation a statement or label, on which shall be uniformly written in sans-serif capitals of not less size than six-point, No. 7, a statement of the name of the substance or substances, or of the preparation, derivative, or alkaloid of the substance or substances contained in it, and of the quantity or proportion present in it:

Acetanilide.	Hydrocyanic acid.
Adrenals, extracts and preparations of.	Iodine.
Alpha-eucaine.	Lead.
Arsenic.	Lobelia.
Barium.	Mercury.
Belladonna.	Nitroglycerin.
Beta-eucaine.	Nux vomica.
Bromine.	Oil of pennyroyal, oil of rue, oil of savin, oil of tansy, oil of parsley, and any other reputed emmenagogue or abortifacient substance.
Bromoform.	Opium.
Cannabis indica.	Paraldehyde.
Carbolic acid.	Phenacetin.
Chloroform.	Phenazone.
Chloral hydrate.	Phosphorus (free).
Coca.	Sulphonal, trional, veronal, and other synthetic hypnotic and analgesic substances.
Copper.	Stramonium.
Creasotum.	
Uresylic acid.	
Cotton-root.	
Cantharides.	
Ergot.	
Heroin.	

Provided that this Regulation shall not apply to drugs supplied in accordance with the provisions of the Pure Food Act, 1908, Section 13 (1), (b), and (d).

2. Proprietary medicines sold for internal or external use by man shall not contain any methyl alcohol.

3. There shall be written on or attached to every package containing a proprietary medicine sold for internal use by man which is compounded with ethyl alcohol in greater proportion than two and one-half parts per centum by volume a label or statement on which shall be written in combination lining Gothic capitals of not less size than six-point No. 7, the percentage proportion of alcohol contained in it, expressed in terms of proof spirit, in the following form:

ALCOHOL.

This mixture contains [here insert the number of parts per centum] per centum of proof spirit

REPEATING PRESCRIPTIONS.—The Pure Food Act of New South Wales requires apparently that if a prescription is repeated, not for the original patient, the prescription is to be copied on the label. This was inserted in the interests of the medical profession, but we hardly think they realise all that it means. Instead of the copy of the prescription being retained in the one pharmacy, everyone who has the bottle can go elsewhere and get the prescription repeated. Instead of putting a stop to the repetition of prescriptions, it will simply make it much easier and more effective. The person who gets the bottle of medicine will label it "Good for dyspepsia," and it will be known to be the prescription of a registered medical practitioner, and it can be passed on from hand to hand indefinitely.

New Zealand.

SALE OF WINE BY A PHARMACIST.—In the case of Mr. Harold O. Wiles, chemist, Auckland, charged with having sold a bottle of Molendo quinine-wine without holding a licence, Mr. E. C. Cutten, Stipendiary Magistrate, delivered his reserved judgment on October 29. Section 3 of the Licensing Act is to the effect "Except as expressly provided in this Act, nothing in this Act shall apply . . . to any chemist administering or selling any spirituous, fermented, or distilled liquors for medicinal purposes." To bring defendant within this section it must be proved not only that he was a chemist, but that the wine was sold for medicinal purposes. The wine had only one-ninth of a grain of quinine to the ounce, was very palatable, and was sold at the comparatively low rate of 3s. a bottle. It was not supplied to a doctor's prescription, and no inquiries were made at the time of the sale as to the purpose for which it was required. It was only one-ninth of the strength of the British Pharmacopœia wine, and nine times the dose would have to be taken before the injurious effects of the quinine would be detected. The Judge thought it would be sufficient if the defendant proved, for example, that the liquor sold was an official or recognised medicinal preparation, or that it was suitable only for a medicine and could not be used as a beverage, or that it was supplied to a doctor's prescription. The analyses showing what the wine was at other times did not concern the Court, which only had to deal with the particular liquor sold by the defendant. A fine of 5*l.* was inflicted.

South Australia.

INSECTICIDES are to have their quality controlled if the Chaff, Hay, and Fruit Bill becomes law. The Bill repeals the previous Act, and defines insecticide as "any substance supplied to be used for spraying plants or fruit for the purpose of destroying insects, fungoid growths, or other pests which infest or attack plants or fruit, or of preventing insects, fungoid growths, or such pests from infesting or attacking plants or fruit." Part 4, Clauses 34-37, deals with insecticides, and requires that when any person sells any insecticide he shall sign and give to the purchaser an invoice on which shall be stated the marking on the package and the exact percentage of every constituent or ingredient. This invoice is to have the effect of a warrant. Every package of insecticide is to be durably branded or marked, and it will be an offence to fail to give the invoice or to stamp the package. No person shall be bound to accept delivery on sale of any insecticide unless these provisions are complied with. The reason for this legislation is that fruit-growers have been supplied with bluestone which contained but little copper sulphate, and the sale of arsenite of lead in place of arsenate.

Victoria.

THE SHEEP-DIPPING BILL, providing for the compulsory dipping of all sheep, passed its third reading in the Legislative Assembly, and has been sent to the Legislative Council for concurrence. (See *C. & D.*, November 6, p. 702.)

General.

ENTRANCE EXAMINATIONS.—In New Zealand and in New South Wales the question of making the entrance examination to pharmacy the Matriculation examination of the

local University is being seriously considered. The pharmaceutical students in New South Wales find themselves looked down upon by the matriculated students at the University, and they chafe under this class distinction. Those who have passed the University examination are advocating the adoption of the Matriculation examination as the standard. In New Zealand the difficulty of establishing independent pharmaceutical education is making the leaders think of the same course, for the New Zealand Universities will not undertake the training of pharmaceutical students who have not passed the Matriculation. If an adequate supply of pharmaceutical apprentices could be obtained who had passed the Matriculation examination, it would be wise to adopt that standard. Two things make it doubtful: first, the difficulty of securing pharmaceutical apprentices at the present time even with the existing Entrance examination; secondly, the opinion strongly held by many that even with the present examinations the remuneration gained in after-life by pharmacists is not adequate to the cost of training.

South African News.

(From the "C. & D." Correspondents.)

Cape Colony.

PERSONALITIES.—Mr. N. Mackay, late of Cape Town, has joined the staff of Messrs. Strachan & Co., chemists, Salisbury, Rhodesia.—Mr. G. Taylor, the South African representative of Messrs. W. J. Bush & Co., Ltd., left by the *Saxon* on November 24 for the coast ports, *en route* to the Transvaal.—Mr. J. Hull, of Messrs. Parke, Davis & Co., left for Johannesburg and the inland Colonies by the mail boat on November 17.—Mr. J. Francis has joined the staff of Messrs. Allen & Hanburys, Ltd., at their Cape Town dépôt.

STAMPS AND LICENCES.—The Amended Stamps and Licences Act of 1909 was promulgated in a Government Gazette Extraordinary on Friday, November 26. Clause 10, relating to "dispensed patent and proprietary medicines," was deleted in the Legislative Council, otherwise the Act remains as published (see *C. & D.*, December 11, p. 888). The omission of this clause leaves the dispensing of proprietaries to be carried out as directed by last year's Act, this requiring the stamping of the article when dispensed in the original package. The Treasury have not issued a new range of stamps, despite the alteration in tariff values. The stamps issued last year are to be continued, and, in case an odd amount is required, such as 3d. or 7d., the difference is made up by affixing an ordinary penny postage-stamp which has been surcharged "Patent and Proprietary Medicine." This gives a greatly increased amount of trouble to the chemist; as, for example, in stamping an article 1s. 3d. four stamps are required, there being no existing stamp between 6d. and 1s. 6d. As each of these four requires separate cancelling with name of seller and date of sale, the unfortunate chemist is a considerable sufferer by the official slackness. The inclusion of toilet-articles (in Clause 8) when medicinal properties are claimed brings in most of the well-known tooth powders and washes, and also the majority of preparations for the hair. Altogether from the trade point of view the outlook is not improved, particularly in view of the heavy penalties imposed for infringement, and also the uncertainty as to what is a proprietary. Much will depend on the way the authorities enforce the provisions of the Act, and your correspondent is informed on good authority that all cases of doubtful infringement will be considered by the Treasury before action is taken against the seller.

Natal.

INSTITUTE OF CHEMISTRY EXAMINATIONS.—In view of possible local candidates for the examinations of the Institute of Chemistry of Great Britain and Ireland, the Council of the Institute have appointed Mr. E. Nevill, F.R.S., F.I.C., Government Analyst, as Hon. Secretary (local), and Mr. J. S. Jamieson, F.I.C., senior analyst, as Assistant Local Secretary.

Transvaal.

THE PREPARATORY HEARING of the case in which Mr. E. Galpin, chemist and druggist, of the Tudor Pharmacy, Pretoria, is charged with culpable homicide in connection with the death of Mr. E. A. Rees, a solicitor, on August 17, was resumed on December 23 at the Resident Magistrate's Court. It will be remembered (see *C. & D.*, September 18, p. 468) that Mr. Rees died at the Pretoria Club as the result of taking what was supposed to be a "black draught" at the Tudor Pharmacy.—David Feinberg, who was employed by the accused as an unqualified assistant in the shop, deposed that he had been engaged by the accused on three weeks' trial on August 7, 1908. Some time after he had been working there the stock of another chemist was taken over, and he assisted in arranging the bottles on the shelves. One bottle was not labelled, so he took it to Mr. Galpin, who told him to label it "Mist. Senna Co." On August 17, 1909, Mr. Rees (the deceased) entered the shop in the absence of Mr. Galpin and asked for a black draught. He was very often left in charge of the shop, so he supplied the black draught, as he had done many times before, but as the usual bottle was empty he took the mixture from the bottle he had marked in pencil. Mr. Rees remarked that the medicine was rather strong, so he gave him a sweet draught of water. He left the shop on the return of Mr. Galpin, and subsequently he heard that Mr. Rees had died.—Mr. A. C. Evans, chemist, of Witbank, from whom the stock of the Tudor Pharmacy had been taken, said that as far as he could remember the bottle which was produced contained a concentrated fever-mixture. If Mr. Rees had taken a dose of this he would have taken thirty-six combined doses, and it would have been impossible for him to live.—Dr. Savage, who was present at the *post-mortem* examination, said the symptoms were consistent with gelsemium-poisoning, but also in addition with an overdose of quinine. There was nothing to lead him to suspect death was due to poisoning by arsenic.—Mr. Stanford stated that Dr. Mitchell, the Government Analyst, had reported that the contents of the stomach were consistent with arsenical poisoning.—Dr. Veale and others also gave evidence, after which the examination was adjourned until December 1.

Orange River Colony.

PROPOSED MEDICAL AND PHARMACEUTICAL CONFERENCE.—As a result of the discussion at the last meeting of the Medical and Pharmacy Council, when the medical officer of health (Dr. Pratt Yule) proposed the holding of a medical conference at Bloemfontein, a circular was sent out by the pharmaceutical members of the Council to every chemist in the O.R.C. whose address could be ascertained calling for a general meeting of chemists to discuss the proposal. The meeting was held in the Board-room of the Public Health Department on November 18, when the President of the Pharmaceutical Society (Mr. F. Carter) was voted to the chair, and, after some discussion and explanation of the procedure likely to be adopted, the pharmaceutical members of the Council were asked to press for a pharmaceutical conference to be held simultaneously.—The adjourned meeting of the Medical and Pharmacy Council was held on November 26, and the request of the pharmaceutical members met with the unanimous support of the medical and dental members, resulting in the passing of the following modification of the original proposal, viz.:

That the Government be approached with a view to the holding of a conference at Bloemfontein of representatives of the several Medical Councils and Pharmacy Boards of British South Africa, for the purpose of drafting a Medical Act and a Pharmacy Act for the Union, and of formulating for the guidance of the Union Government such resolutions on matters pertaining to the general administration of State medicine as shall conduce to uniformity on a common working basis.

It was suggested that the two Conferences would sit separately and simultaneously, and finally sit jointly to discuss such points as might have arisen where both parties were interested, with a view to a compromise being effected. Strong efforts are to be made to have one of the Cabinet Ministers created Minister of Public Health, whose duty it would especially be to control the practice of medicine in all forms, and who would thus be the official representative

of the chemists as well as of the doctors, dentists, nurses, veterinary surgeons, etc. Dr. Ward (President of the Council), Dr. Pratt-Yule, M.O.H., and Mr. S. S. Hewitt were deputed to interview the Prime Minister, and ask the Government to summon the suggested Conference.

Pharmaceutical Society of Cape Colony.

A COUNCIL-MEETING was held on November 18 at Mercantile Buildings, Hout Street, Cape Town. Mr. W. Froembling presided, and there were present Mr. F. C. Mathew (Vice-President), Messrs. H. R. Peck, G. Cleghorn, J. Sowden, J. Austin-Thomas, A. E. A. Tothill, and J. Clayton Smith (Acting Secretary). The President welcomed Mr. J. Austin-Thomas on his return from his trip to England. The minutes of the previous meeting were read and confirmed. A letter was next read from Mr. Jeffries, of the Orange River Colony Medical and Pharmacy Board, relative to concerted action on the part of the various Pharmaceutical Associations, in view of union. It was decided to inform the writer that this Society was in agreement with his views. Discussion followed on the stamp-tax, the President and one or two members giving a brief *r  sum  * of the steps taken with regard to getting amendments introduced. On the proposal of Mr. H. R. Peck, seconded by Mr. J. Sowden, it was decided to send a letter of thanks to the several members of the House of Assembly who had presented the Society's view of the various clauses.

A special general meeting was held at the Society's Rooms on November 25, to consider the adoption of proposed new rules. The President (Mr. W. Froembling) was in the chair, and those present included Messrs. F. C. Mathew, A. J. Rivett, A. E. A. Tothill, G. Cleghorn, J. Sowden, O. Rohrissen, W. E. Crow, H. R. Peck, J. Francis, C. Merry, C. Weller, G. Tutt, J. Austin-Thomas, W. Tullett (Allen & Hanburys, Ltd.), J. Clayton Smith, and the Secretary (Mr. J. Dell). The President feelingly referred to the sudden death of Mr. J. Jones. Mr. F. C. Mathew moved that the sympathy of the Society be extended to Mrs. Jones and family in their bereavement. This was seconded by Mr. J. Austin-Thomas and carried in silence. Gifts to the Society of a portrait of the late W. Martindale, from Mr. J. Austin-Thomas, and of a *materia medica* collection, from Mr. G. Cleghorn, were acknowledged and the donors thanked. Mr. W. Froembling then gave a brief account of the work done by the special committee in framing the new rules, and referred to the most important changes. These included the election of associates at a reduced subscription of 10s. 6d., the appointment of a Financial Committee, and regulations regarding the use of the Society's new headquarters for educational purposes. The new clauses were taken seriatim, and with slight amendments were put to the vote and passed. Mr. A. J. Rivett was anxious that no chemist eligible as an ordinary member should be elected an honorary member, but was quickly assured by the President that the financial condition of the Society would not permit of such election. Mr. F. C. Mathew pointed out that no regulations for the election of President had been provided, and a clause was added covering this point. The President, replying to Mr. W. E. Crow, said that the committee had as far as possible brought the new rules into harmony with those of the various Pharmaceutical Societies of South Africa. An invitation to the last general meeting for 1909, to be held in December, when Mr. Froembling will give a short address on botany, concluded the meeting.

Canadian News.

(From the "C. & D." Correspondent.)

OPTICIANS' BILL.—The opticians of Manitoba, who include many prominent druggists, are considering the means of promoting legislation reserving the title "optometrist" to qualified opticians. An outline of the draft Bill was put before a recent meeting of the Manitoba Association of Opticians.

TOBACCO A DRUG.—Mr. W. H. Lee, druggist, Toronto, was recently fined for selling cigars on Sunday contrary to the provisions of the Lord's Day Act. He appealed, and on November 22 the conviction was quashed. Mr. Lee's witnesses—Dean Heeber and Dr. Graham Chambers (Ontario College of Pharmacy), and Dr. R. J. Dwyer—claimed that tobacco is a drug. The Judge found that tobacco is a drug, and hence there was no offence under the Lord's Day Act, which did not impose upon druggists the duty of inquiring the purpose for which the cigar is sold,

whether for use as a drug or merely for the pleasure of smoking it.

CREAM OF TARTAR.—Bulletin No. 180 of the Inland Revenue Department, Ottawa, gives the results of the analysis of 225 samples of commercial cream of tartar. Of this number forty-one were returned as adulterated (chiefly with alum-phosphate mixture) and four are stated to be of doubtful purity. The districts of New Brunswick, Kingston, Windsor, Manitoba, and Calgary yielded no adulterated samples; while one out of the fifteen samples taken in Nova Scotia, Prince Edward Island, London, Vancouver, and Victoria was sophisticated. Toronto, Quebec, Montreal, and St. Hyacinthe had high percentages of adulteration, Toronto showing the highest number of non-genuine samples and the others in descending order as named. The results show an improvement over those of 1905, when 72.2 per cent. of the cream-of-tartar samples were adulterated.

COMPANY PHARMACY.—The Court of Appeal at Montreal is occupied with a case which will decide whether a company can legally carry on pharmacy. The Pharmaceutical Association of Quebec sued the modern Drug-store, Ltd., Hull, Quebec, for infringing the Pharmacy Act by keeping open shop without being a registered person. The case went against the company in the lower courts. In the Court of Appeal on November 17 it was argued on behalf of the Pharmaceutical Association that the law provides that every drug-shop must be kept under the name of the *bona-fide* proprietor, who must be a duly registered druggist or a doctor of medicine. Therefore, if a corporation cannot be registered as a druggist, it cannot keep a drug-store. The company argues that the selling of drugs is an act of trade and commerce, that the provincial statutes cannot affect it, as it has a Dominion charter empowering it to sell drugs. The law forbids a shop to be kept open and drugs sold except by a licensed pharmacist. The company has two pharmacists, duly licensed, one of whom manages each of its two shops. After argument, the Court took the case *en d  libre*.

India and the East.

(From the "C. & D." Correspondents.)

MYSORE SANDALWOOD.—The Forest Department in Coorg intend to offer about 200 tons of sandalwood in December, being the produce of the Government forests in the province.

ILLICIT DRUGS.—The Singapore second magistrate, on November 5, fined Ug Ah Patt \$10,000, or in default one year's rigorous imprisonment, for being in possession of illicit chandu (1,024 tahils, valued at \$3,126). The informer will get \$9,500, and the farm \$500, if the fine is paid.

DELETERIOUS DRUGS BILL.—In the Straits Settlements Legislative Council on November 5, Mr. R. Allen, Acting Attorney-General, moved the first reading of an Ordinance to amend and consolidate the law with regard to deleterious drugs. He stated that the 1907 Ordinance had not had the desired effect, while the suggested Pharmacy Ordinance (*C. & D.*, July 31, p. 185) was withdrawn partly on account of opposition by the chemists (*C. & D.*, August 7, p. 267), and also because it was found that properly to cope with the import and export of deleterious drugs it was essential to create a monopoly—the right being invested in the Principal Civil Medical Officer. The present Bill contained provisions for checking the drug-habit of a much more stringent nature than hitherto, and more presumptions (mostly taken from the Gaming Ordinance) would be given for fixing guilt upon offenders. He thanked the P.C.M.O., Government analyst, and three Singapore chemists who had given loyal co-operation in formulating the Ordinance. Mr. Allen said he understood that chemists would send their indents through the P.C.M.O., through whom the goods would be consigned, a method which would give the minimum of trouble to chemists, whom it was desired to embarrass as little as possible under this measure. It would in future be an offence for a person to self-administer a drug. The Bill was read a first time, and the second reading was put down for November 19.

Sir Edward Evans.

THE Liberals of Liverpool on Tuesday, December 21, honoured Sir Edward Evans (Messrs. Evans Sons Lescher & Webb, Ltd.) by presenting him with his portrait, painted by Mr. Frank G. Copnall, which was exhibited in the Royal Academy this year. A replica of the portrait was at the same time presented to the Liverpool Reform Club, and Lady Evans received a diamond pendant. The ceremony took place in the Club-house. Mr. Allan H. Bright, Chairman of the Presentation Committee, presided, and Mr. Asquith (the Prime Minister)



THE PORTRAIT.

made the presentations. Sir Edward Evans has for twenty years been a member of the Committee of the National Liberal Federation, and for fifteen years its Chairman. From 1889 to 1907 he was Chairman of the Liverpool Liberal Federal Council. These facts were mentioned by Mr. Bright in his speech, and after him Mr. G. J. Lynskey spoke on behalf of Sir Edward's Irish Nationalist friends. Mr. Asquith then spoke. He said :

"Sir Edward Evans—and I will add Lady Evans—(applause)—I esteem it a very great honour and privilege to be permitted in the name of the subscribers to present to you this portrait, which represents, I think, with great fidelity, your well-known and much-loved features, and which has, I am certain, a still higher value to you and yours—in fact, that it is the expression of the universal goodwill of those among whom and for whom you have laboured so long. The Chairman has referred to the fact, known to all of you I see here by actual daily personal intercourse, known to some of us outside by well-authenticated report, that the life of an active Liberal in Liverpool is not free from embarrassment. (Laughter.) Gentlemen, those are conditions which try and test and bring out the real mettle of men, and I don't believe it would be possible to pay a higher tribute to anyone in this country than that which we shall all agree in according to Sir Edward Evans to-day—that amid all the struggles of a contentious public career, in which he has never deviated by one hair's breadth from loyalty to his party and to its principles, he has yet so comported himself and so conducted his public life as never for a moment to forfeit the esteem and respect even of his most bitter opponents." (Applause.)

Mr. Asquith proceeded to speak in detail of Sir Edward's political services, describing him as "a wise leader, a

faithful friend, and a most strenuous and tenacious and indomitable fighter," and adding that the presentation of the portrait did not, as was expected, mark Sir Edward's retirement, as "he is once more putting himself at the head of the fighting forces of the party." He added :

"I have very great pleasure in being at the same time the medium of offering to Lady Evans a token of the respect which she shares with her husband." (Applause.)

At this point Lady Evans stepped forward and was presented with a handsome diamond pendant by Mr. Asquith, who continued :

"Lady Evans, I am not going to venture upon the very vexed and delicate topic of what is the true function of woman—(loud laughter)—in the political life and activity of a nation such as this. Upon that point there is a certain diversity of opinion—(laughter)—but there is one thing upon which we are all agreed. A woman who can do what you, Lady Evans, have done—sustaining her husband amidst all the trials and troubles and anxieties of life—must always be to him not only a consoler but an inspirer, and in the fullest sense a helpmate, and a woman whom every man in this country is delighted to honour. (Applause.) Now, Sir Edward and Lady Evans, I wish you, in the name of this company, in the name of the Liberals of Liverpool, and in the name of the whole of the Liberal Party in the country—I wish you Godspeed, long life, and all happiness." (Loud applause.)

Sir Edward Evans, in replying, said that he and his wife and family would value throughout their whole lives the encomium passed upon him by the Prime Minister. He touched upon his relations with the Liberalism of Lancashire, and, referring to the fact that a replica of the portrait is to hang on the walls of the club, he said he hoped it would be to future generations some small inspiration to know that amongst great difficulties it was possible by very strenuous effort to obtain victory. Mr. Moon, on behalf of the Committee of the club, accepted the portrait, and proposed a vote of thanks to the Prime Minister. Mr. Asquith, in acknowledging, asked the same compliment to be paid to the Chairman.

Romance in the Pharmacy.

She is on the staff of the manufacturer of a well-known American spécialité, and he is a chemist's assistant in an English watering-place. Her name is —well, Flossie will serve, and his Randolph.

One day in the spring-time, which in Connecticut as well as elsewhere turns the thoughts of young men and maidens to love, she was packing a dozen-box of the spécialité, and wrote lightly upon the box her name and address.

In the merry month of May he was taking a packet out of the box, and he happened on Flossie's name. That evening, while sitting on the pier, he invited to her a picture postcard. By return he received a postcard of Connecticut's Highland Lake, on which she had written :

DEAR RANDOLPH,—Your card received, and I hope to receive many more. Would enjoy a walk on that pier with you very much. Now, like a dear boy, let me hear from you again soon, and I will be very prompt next time. From your new-found friend, FLOSSIE.

He replied with another picture postcard, and so the correspondence went on. There was an exchange of photographs, and the one which we reproduce is what Flossie sent. The last postcard received is dated December 2. On this she says :

DEAR RANDOLPH,—Very glad to hear from you again. How is the dear boy? This is the street on which I live—dandy place for a stroll. Good-bye, dearie, FLOSSIE.

Has the little romance ended? Time will tell, but it is clear from what Randolph tells us that there would have been more of it had the broad Atlantic not intervened.

CLASSES for pharmacy students at the Leicester Technical School include courses by Mr. Burford in materia medica and pharmacy. Leicester assistants and apprentices will find the courses useful.

Legal Reports.

High Court Cases.

RONUK LABELS.

The action which is being brought by Ronuk, Ltd., of Portslade, near Brighton, against Anthony Gardner & Sons and the Garno Polish Co., of Church, near Accrington, was mentioned to Mr. Justice Joyce in the Chancery Division on Friday, when Mr. Hughes, K.C., on behalf of the plaintiffs, asked for an injunction to restrain defendants from infringement of plaintiffs' copyright in certain labels, directions, and booklets setting forth the advantages of Ronuk Polish for floors and linoleums. Counsel stated that this polish has a large use in hospitals owing to its antiseptic properties. The defendants made a substance professing to have the same properties as Ronuk, and had apparently been adopting plaintiffs' labels and directions for their own preparations, which were sold under the name of Garno. Plaintiffs had a preparation called "Hospital Ronuk Concentrated." Defendants sold one called "Hospital Garno, Ltd.," and so on.—Mr. Gardner, who appeared in person, denied counsel's allegations and said that his labels had been in use for two years before the plaintiffs registered theirs.—In the end his Lordship refused the injunction, but ordered defendant to withdraw four labels complained of and to prepare others for submission to the plaintiffs. His Lordship recommended the parties, "if they were wise," to come to some agreement.

County Court Cases.

DRESSING A FINGER.

At the Newport (Mon.) County Court on December 16, before Acting Judge Amphlett, Alexander J. Cowan brought an action against Mr. Alfred W. C. Lewis, chemist, Medical Hall, High Street, Newport, to recover 100/- for alleged improper treatment of an injured finger. Mr. A. Parsons, barrister, appeared for the plaintiff, and Mr. Lincoln Reed, barrister, for the defendant. Plaintiff stated that while acting as manager of a provision shop near the Medical Hall on September 18, he cut one of his fingers in a machine. He went to the defendant, who treated it at different times, but blood poisoning setting in he consulted a doctor. Owing to the bad condition of his hand he lost his employment, but in answer to Mr. Lincoln Reed he said he had made no claim for compensation against his employers. Dr. Francis McGinn said when the plaintiff consulted him his finger was in a sloppy and septic condition, with no tendency to heal, and at one time he thought it would be necessary to amputate it. The condition of the finger was due to bad treatment. Dr. Neville also gave evidence that the finger had been improperly treated. The defendant said he had been a chemist for twenty years, and in business in Newport for twelve years. The treatment which he applied to the finger was the one in use throughout the kingdom. He used Friar's balsam, a drawing ointment, and an antiseptic soap before bandaging the wound. Dr. Buist, of Cardiff, gave evidence in support of the defendant, after which counsel addressed the Court. Mr. Reed, in his speech, said that the complaint was that Mr. Lewis did not advise Cowan to go to a doctor, and secondly that he did not use any proper sort of dressings. It was proved, however, that Mr. Lewis did use antiseptic dressings. The same amount of care and skill was not required from a chemist as from a doctor. The bargain was that the chemist should use all the skill and knowledge that he was capable of, and unless it was shown that Mr. Lewis had not done this, there was no case against him. His Honour, however, found for plaintiff, and assessed the damages at 10/-.

CANCELLED APPRENTICESHIP.

At the Worcester County Court on December 17, before Judge Ingham, Mr. Lewis Lloyd, of the School, Alfrick, and his son, Llewellyn Henry Lloyd, sued Mr. Frederick George Acton, chemist and druggist, Corn Market, Worcester, for 30/- for breach of the terms of a deed of apprenticeship between the younger plaintiff and the defendant, and for 1/- 12s. wages. Mr. T. Huband, for the plaintiffs, said Mr. Lloyd apprenticed his son to the defendant in December 1903, and the arrangement was

apparently satisfactory until September last, when Mr. Acton wrote to Mr. Lloyd telling him that he was over-staffed and saying that the younger plaintiff was not adapted to the business and advising him to take him away. Later the boy was dismissed.

The Judge asked Mr. J. R. Anthony (who appeared for Mr. Acton) what the defence was, and he replied that, considering the circumstances and conduct of the apprentice, the defendant was justified in dismissing the lad without notice.

Mr. Lloyd stated in evidence that the premium was 30/-, of which half had been paid. [Mr. Anthony here remarked that the boy had got back 11/- or 12/- in wages.] Witness, continuing, said after his son was dismissed he took legal advice, and acting on that he sent his son again to the shop, when he was again sent away. In cross-examination, he said he did not believe the defendant's manager (Mr. Thompson) when he said the boy was unfitted for the extremely technical work of a chemist. He did not think that the boy was taught properly; he was put to clean cellars part of the time.

Llewellyn H. Lloyd said he tried to do his work properly. He denied that in April he was told by the manager that he was lax, dirty, and untidy, but admitted that Mr. Thompson told him he was not cut quite fine enough for the business and had not enough polish for the counter. He denied taking any money from the till or taking lozenges or other stock.

John Elias Jones, who until last April was manager for Mr. Acton, said he thought that Lloyd was a very good lad and would make a good chemist. Mr. Anthony said he was surprised to see this witness in court, and asked him if he was not dismissed because he was addicted to taking cocaine, and the witness admitted this, but denied that Mr. Acton dismissed him; he gave notice first.

For the defence, William John Thompson, the present manager, said young Lloyd never gave him satisfaction. He was absolutely lax in every particular, and gave several instances. On three occasions he found articles in Lloyd's outdoor-coat pocket, these being a bottle of marking-ink, a bundle of toothpicks, and two bottles of oil. It was after that last occasion that he telephoned to Mr. Acton, who ordered the boy's dismissal.

The Judge: Then you dismissed him for stealing?—Yes.

Mr. Anthony said there was a series of offences.

Evidence was also given by John Edward Fawke, another apprentice, and by the defendant, who said he saw Mr. Lloyd in August and told him that as there was no chance of his son ever making a good chemist he would willingly release him, and Mr. Lloyd said he would think about the matter. When the further allegations were made against the boy, and he was dismissed, the witness wrote to Mr. Lloyd asking him to come and see him, but he never came. His object was to prevent publicity in order that the boy might have a chance at something else. He considered it unsafe to the public to have Lloyd as an apprentice any longer, and considering his conduct he thought that he was perfectly justified in breaking the agreement.

Mr. Anthony, after submitting that plaintiffs were not entitled to recover, said the item for wages (8s. a week in lieu of sleeping in) had been paid into Court. Plaintiffs could have had that sum on application.

The Judge said it was clear that the boy had taken more sweets than he ought to have done, and he deserved a good beating for that, but the more serious charge of taking money had not been proved, nor had there been proved sufficient misconduct to enable the defendant to discharge the boy. There would be judgment for the plaintiffs for half the premium money (7l. 10s.) and the 1l. 12s. paid into Court, but no costs.

CHEMICAL TRADE-NAMES.

Sheriff Mackenzie, of the Glasgow Sheriff Court, has issued an interlocutor in the action by the Kelvindale Chemical Co. against the Kelvininside Chemical Co. for an order to interdict defendants from canvassing the customers of the Kelvininside Co. (in liquidation) and their predecessors, and to have them restrained from using the names "Sanofene," "Pynolene," and "Kelvin Boiler-composition." The Sheriff stated that he had come to the conclusion that the pursuer had proved that these descriptions are

identified in the Scotch market with the manufactures of the Kelvindale Co., but he also held that defendant used the names as merely descriptive of the articles which he was offering for sale, and in a manner which could not mislead purchasers. Pursuer had failed to prove that defendants had used the names in such a manner as to mislead customers. Pursuer also craved delivery of the recipes for the manufacture of the preparations sold under the names mentioned, but he entirely failed to show any reason why this should be granted. On the whole matter the Sheriff was of opinion that the defenders were entitled to be assuited, which accordingly he ordered, with expenses.

Bankruptcy Reports.

Re GEO. H. WAUGH, formerly 132 Grosvenor Street, Belfast, Pharmaceutical Chemist.—This case came before the Belfast Bankruptcy Court last week for the audit of the official assignees' second account. Mr. Alexander, solicitor, read the report, which showed a balance in hand of 41*l.* 3*s.* 1*d.* The audit was passed.

Re JOHN LORD STANSFIELD, late of Salford, now of 54 Boothfold, Waterfoot, Rossendale, Chemical Manufacturer.—At Salford Bankruptcy Court on December 14, this debtor was examined on accounts showing unsecured liabilities amounting to 326*l.* 7*s.* 10*d.*, assets valued at 79*l.* 9*s.* 4*d.*, and a deficiency of 246*l.* 18*s.* 6*d.* From 1901 to 1906 he carried on a drug-store at Mill End, Waterfoot, which he sold for 30*l.* He admitted that he speculated in trying to establish the business at Salford, but it never got fairly started, and it was practically money thrown away. The examination was closed.

Deed of Arrangement.

FARREN, WILLIAM JAMES, late trading as Barron & Co., 49 Chapel Road, Worthing, Photographic Chemist.—Trustee, H. S. Ward, 8 Pavilion Buildings, Brighton, C.A. Dated December 11; filed December 17. Secured creditors, 150*l.*; liabilities unsecured, 900*l.*; estimated net assets, 232*l.* The creditors include: Baiss Bros. & Stevenson, Ltd. (22*l.*); C. R. Harker, Stagg & Morgan, Ltd. (15*l.*); S. Maw, Son & Sons (13*l.*); Stortons, Ltd., Northampton (10*l.*).

Gazette.

The Bankruptcy Acts, 1883 and 1890.

RECEIVING ORDER.

ROBERTSON, EARL LUCIUS, Shaftesbury Avenue, London, W., and Brixton Road, London, S.W., dentist.

ADJUDICATION.

TWIFORD, THOMAS, Leeds, dentist.

Company Notice.

JEREZ ESSENTIAL OIL DISTILLING CO., LTD.—General meeting at 5 New London Street, London, E.C., on January 27, at 12 noon. Report by liquidator.

New Companies and Company News.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

MANCHESTER OILSEED CRUSHERS, LTD.—Capital 25,000*l.*, in 1*l.* shares. The first directors are E. A. Eason, W. H. Collier, J. W. Nasmith, A. H. Scott, M.P., and J. H. Lomax. R.O., 20 Prince's Street, Manchester.

ADVANCE BOX MANUFACTURING CO., LTD. (P.C.)—Capital 1,000*l.*, in 1*l.* shares. Objects: To adopt an agreement with H. Burditt, and to carry on the business of manufacturers of and dealers in paper, boxes, etc. H. Burditt is the first managing director. R.O., Trinity Lane, Hinckley, Leics.

PREMIER BOTTLE SEAL CO., LTD.—Registered in Edinburgh. Capital 15,000*l.*, in 1*l.* shares. Objects: To acquire the assets of the Champion Bottle Seal Co., Ltd. (in liquidation), and to carry on the same. The first directors are A. Barr, A. Dougall, D. Forbes, D. McPhun, and D. Ross. Qualification, 150 shares. R.O., 145 St. Vincent Street, Glasgow.

ERASMUS WILLS, LTD. (P.C.)—Capital 1,000*l.*, in 1*l.* shares. Objects: To carry on at Nottingham or elsewhere the business of manufacturers of and packers of medicinal and toilet preparations and other specialities. The first directors are J. A. Boot, St. Heliers, The Park, Nottingham, managing director, and A. Thompson, West Bridgford, Notts, general manager. R.O., Parkinson Street, Nottingham.

ELIAS PURE RUBBER PROCESS, LTD. (P.C.)—Capital 2,000*l.*, in 1*l.* shares. Objects: To adopt an agreement with O. A. Elias, and to carry on the business of manufacturers of and dealers in rubber coagulants, chemicals, and rubber preservatives, importers and manufacturers of and dealers in rubber and rubber compounds, &c. The subscribers are E. J. Outram, Shenley, Herts, gentleman, and F. H. Parsons, 57 Chancery Lane, W.C., surveyor.

DR. MEYER'S DRY-CLEANING PROCESSES, LTD.—Capital 30,000*l.*, in 1*l.* shares. Takes power, *inter alia*, to carry on the business of manufacturing, consulting, and analytical chemists and druggists, etc. The subscribers are Dr. J. F. M. Meyer, 45 Finsbury Square, E.C., manufacturing chemist; E. Peters and F. Haare, 4 Cullum Street, E.C., merchants; H. Bausch, 25 Craven Park Road, Harlesden, merchant; C. Schlaeke, ship store merchant, and B. W. Holland, merchant, 8 George Street, Minories, E.C.; and R. Dickson, 124 Fen-church Street, E.C., merchant.

VANGUARD CHEMICAL CO., LTD. (P.C.)—Capital 40,000*l.*, in 1*l.* shares. Objects: To carry on the business of brewers, distillers, maltsters, vinegar, cider, wine, and aerated-water manufacturers, manufacturers of and dealers in scientific and technical apparatus, reagents and instruments, manufacturing, consulting, and analytical chemists, etc. The first directors are A. J. Murphy, Dorrington Street, Leeds, chemical manufacturer (permanent governing director, special qualification 1,000*l.*, remuneration 600*l.* per annum), and H. N. Murphy, 2 Springfield Mount, Leeds, engineer.

W. MURPHY & CO., LTD. (P.C.)—Registered in Dublin. Capital 4,000*l.*, in 2,750 cumulative preference shares and 1,250 ordinary shares of 1*l.* each. Objects: To carry on the business of chemists, druggists, oil, colour, hardware, and glass merchants carried on by Walter Murphy at 48 North King Street, Dublin, as W. Murphy & Co. The first subscribers are Walter Murphy, Gracepark House, Drumcondra, Dublin, merchant, and J. K. Bridgeman, Parknasilla, Iona Drive, Dublin. The first directors are W. Murphy and J. K. Bridgeman. J. K. Bridgeman is managing director for ten years, with 250*l.* per annum as remuneration. R.O., 48 North King Street, Dublin.

SELF-DEVELOPING PLATE CO., LTD.—The accounts for the year and nine months ended September 30 show an expenditure on advertising, etc., of 3,706*l.*, making the total to date 9,962*l.*

PROSET, LTD.—The summary of liquidator's accounts in the Middlesex County Court shows receipts amounting to 293*l.*, less payment of 8*l.* for maintenance of assets. The receipts are made up of cash 35*l.*, book debts 199*l.*, and other property 59*l.* Of the cost and charges, which total 207*l.*, Board of Trade and Court fee amount to 62*l.* and law costs to 73*l.* The balance in favour of creditors is 78*l.*

MORTGAGES AND CHARGES.—The following have been registered: *Caergwle Wells Natural Mineral Water Co., Ltd.* Issue of 850*l.*, part of 2,000*l.* debentures. Trustees, J. P. Court, 8 Cook Street, Liverpool, and F. H. Hawkins, Wrexham.—*Samuel Cooper, Ltd.* Mortgage debenture to secure 52*l.* Holders, Lorimer & Co., Ltd., Britannia Row, Islington, N.—*May, Roberts & Co., Ltd.* Mortgage on 9 Clerkenwell Road, E.C., to secure all moneys due or to become due from the company to the Union of London and Smiths Bank, Ltd., Goswell Road, E.C., not exceeding 6,000*l.*—*Goldy Stopper Syndicate, Ltd.* Issue on December 14 of 500*l.* debentures, part of a series.

RECEIVER.—*Sevenoaks Mineral Water Co., Ltd.* Mr. W. H. Cronk, Sevenoaks, appointed receiver under powers contained in debentures.

He had not been feeling well lately, and consulted his doctor. Black and red spots appeared before his eyes every night, he said, and Esculapius advised "stop playing bridge."

MR. GEORGE CROCKER, the American capitalist, whose death from cancer occurred last Saturday, has bequeathed 300,000*l.* to the Columbia University, to be used wholly in research work, having for its object the discovery of a cure for the dread disease. Mr. Crocker's wife, who died a few years ago, was also a cancer victim.

A Kensington Pharmacy.

MR. JOHN F. HARRINGTON, chemist and druggist, President of the Pharmaceutical Society, has recently moved his business from 45 to 15 High Street, Kensington, W. Kensington is a favourite residential quarter of well-to-do people of the great Metropolis, and in the shopping district—the High Street—are to be found shops equal to those of Bond Street or Piccadilly. The business which Mr. Harrington owns was founded in 1850 by the late Mr. Augustus Bird, who in his day served as an examiner for the Pharmaceutical Society, and set before pharmacy a high ideal. Mr. Harrington acquired the business some twenty-five years ago, and when the lease of the premises was expiring looked about for a more convenient spot whereon to build a new house. A site was obtained on the same side of the street, just opposite the Empress Rooms connected with the Royal Palace Hotel. Mr. G. H. Lansdown, an architect who has specialised in designing business premises, was engaged to draw up plans for the pharmacy, and his work has been carried out faithfully by Messrs. Carmichael, the contractors. The elevation is unostentatious but impressive, dressed stone being the material used. The fine sweep of plate-glass in the pharmacy gives a lightness to the structure, which might otherwise appear too severe. The casement windows of the upper part are fitted with dark green curtains, which give a pleasing contrast to the light stone. Under the guidance of Mr. Harrington a C. & D. man went over the new premises this week, and found everything in spick-and-span condition notwithstanding that but few weeks have elapsed since the business was moved from the old site. The shop-window is simply furnished with car-

boys, while on the marquetry floor of the window-space are only to be found a few articles, such as hot-water bottles and bath-powder, the object being to maintain the professional character of the business. The stallboard is of copper with brass lettering, and beneath it is a glazed opening, through which aerated waters are conveyed by means of a lift from the basement factory. The shop is spacious—about 30 ft. square—and behind a handsome screen are the dispensary and office, which go another 20 ft. back. The whole building is heated by means of hot-water radiators from a furnace in the basement. Electricity is used for lighting and power, metallic filament lamps being employed. The serving-counter runs the whole length of the front shop, and has desk-cases at

each end. The front of the counter is glazed, and there are bent-edged cases on the top. The wall-space on the customers' side is occupied with glass cases, in which are displayed pharmaceutical and toilet preparations. The whole of the fittings are in rich Spanish mahogany, the *tout ensemble* being very fine. Behind the counter there is a fine sweep of gold-labelled shop-rounds and ointment-jars—some 700 altogether. The floor is of teresco, a material like marble, but the lincrusta Walton ceiling is not yet in place. Behind the dispensary is a large, well-lighted room destined to be fitted up as a laboratory for analytical and bacteriological work. The communicating doors in this part of the building are of teak, with copper lights, and the partitions are all built of fire-proof material. In the upper floors means of exit are provided at various points, in case of fire. The basement, a fine room, 100 ft. long, is arranged as a store, and part of it is occupied by the aerated-water factory. Inflammable liquids are stored in a special building in the open air. The aerated-water machinery is one of Barnett & Foster's installations, in which compressed carbonic-acid gas is employed, the motive-power being electricity. Mr. Harrington has five assistants—Mr. Herbert Price, the manager, living on the premises. The staff is twelve altogether, including porters and men employed in the factory. Mr. Harrington is chemist by appointment to the Royal Family, and has a high-class dispensing connection, as well as cultivating business with the local physicians and surgeons. The new building is well adapted for such a business, the arrangement and system reflecting the highest credit on those who have worked so hard in bringing them to a successful issue.

Trade Notes.

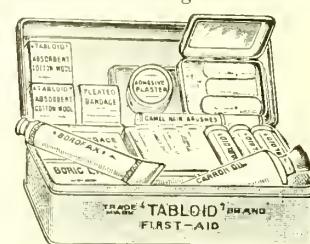
MESSRS. H. SALLE & Co., 4 Rue Elzévir, Paris, have appointed Messrs. F. Wachendorff & Co., 37 Crutched Friars, London, E.C., sole agents in the United Kingdom for the sale of all their products.

MESSRS. RAIMES & Co., York, on December 4 issued a notice to their customers stating that they would continue to charge the increased duty on spirituous preparations, but will refund it should the duty not be re-imposed.

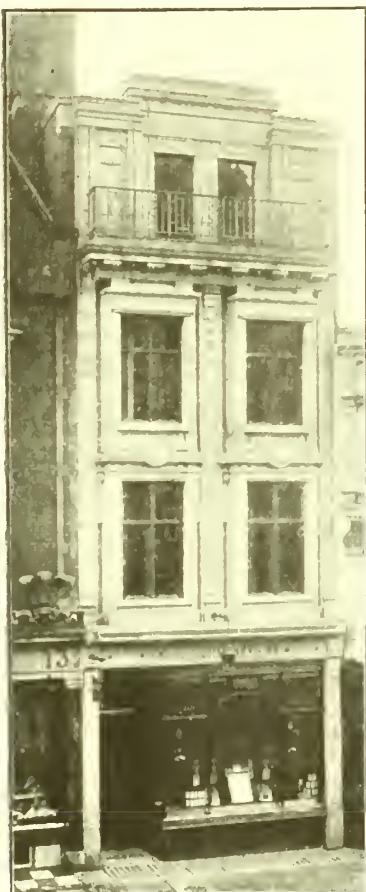
MESSRS. ALLEN & HANBURY'S December list of alterations of wholesale prices is unusually bulky, and copies of it may be obtained from them on application. Attached to it is a note *re* Spirit Duty, to the effect that they will reimburse increased cost of all alcoholic preparations purchased subsequent to December 3, and prior to the framing of the new Finance Bill, in proportion to the amount they are able to obtain from H.M. Treasury.

P.A.T.A. PRICES.—The additions to the Protected List for December are as follows : Bactox vaporiser light; Baffo moustache fixateur; Casein, Ltd.'s, preparations (Phosphova, Galactova, Trumilk, etc.); Claroma catarrh scent; Dural hoof dressing; Gibbs' Pansalia soap; Guaia-cose; John Bull malt extract (Paco brand); Radiumshine; Shurzine preparations; Willson's Canadian pig powder; Wintogen. The removals are : Am-or-ou; Antiscreuma; Ivy Juice for corns; Robb's foods; Chemists' Emulsion Co.'s preparations.

"TABLOID" FIRST-AID.—Messrs. Burroughs Wellcome & Co. have excelled themselves in the production of their new "Tabloid" first-aid case for 5s.—that is what it retails at—and it is as neat and compact a case for the money as could be wished. It measures 6½ in. long by 3¼ in. wide and 2 in. deep, and contains the following :



"Tabloid" bandages, lint, cotton-wool, Carron oil, gauze, "Borofax" (boric ointment), "Vaporole" aromatic ammonia (smelling-salts), "Tabloid" ammonium carbonate for internal use, "Soloid" Chinosol, strapping plaster, protective skin, camel-hair brush, jaconet, and safety-pins.



15 HIGH STREET, KENSINGTON.

boys, while on the marquetry floor of the window-space are only to be found a few articles, such as hot-water bottles and bath-powder, the object being to maintain the professional character of the business. The stallboard is of copper with brass lettering, and beneath it is a glazed opening, through which aerated waters are conveyed by means of a lift from the basement factory. The shop is spacious—about 30 ft. square—and behind a handsome screen are the dispensary and office, which go another 20 ft. back. The whole building is heated by means of hot-water radiators from a furnace in the basement. Electricity is used for lighting and power, metallic filament lamps being employed. The serving-counter runs the whole length of the front shop, and has desk-cases at

The illustration shows the style of the case; part of the contents is packed in a lift-out tray, with another beneath it. The cases are offered in a choice of three colours of enamel. One should make an acceptable New Year's gift to the head of any nursery.

ONE OF THE SIGHTS OF KINGSTON-ON-THAMES is the shop of Boots, Ltd., in Market Place. The premises are reminiscent of Saxon and other early times, the company having in this case, as in their premises at St. Albans, got the best artistic and architectural skill to retain the ancient characteristics. An illustrated article on the shop in the "Surrey Comet" has been reprinted by the company, who, no doubt, would send a copy to any pharmacist of antiquarian turn who asks for one.

A SHILLING BOTTLE of Phillips' Milk of Magnesia is the latest novelty, and one which we fancy will be welcomed by hosts of mothers and others who have found this preparation of magnesium hydroxide indispensable in their households. The package is generous looking and bulky—in fact, a good shillingsworth. It has been put on the P.A.T.A. list to retail at the face value, and will be introduced on January 1, 1910. The makers are the Charles H. Phillips' Chemical Co., 14 Henrietta Street, Covent Garden, W.C., and they will supply special revised terms for the original and new sizes on application.

"LOTIL" is the trade-mark name which Messrs. John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E., have given to a new skin-preparation and a soap, which are placed on the market by the Lotil Co. Both are in most respects new creations, and remarkable for their skin-softening properties. "Lotil" itself is a transparent viscous amber-coloured fluid, a few drops of which are put on the hands after washing and before drying. On rubbing this over the skin a deliciously soothing cream is formed, which leaves the skin in that soft condition which is much wanted at this time of the year. We have not attempted to get at the secret by analysis (it is said to be "a true oil"), but have simply satisfied ourselves that "Lotil" is a preparation which does what the makers say, and that it is a thing which pharmacists can handle with credit. Lotil soap from outside appearance resembles ordinary toilet-soaps, but it has the merits of Lotil, the free fat in it preventing the depilating action of the hydrolytic alkali, and the free oil leaves the skin in a state of velvety softness. It is a distinct novelty. Lotil and the soap are artistically put up, the lotion at 2s. 6d. per bottle, and the soap at 2s. 6d. per box of three tablets.

BEDSIDE TABLES AND ASEPTIC DRESSINGS.—A special table for invalids is nowadays a necessity, and few things would be more acceptable to them as a present at this time; chemists should therefore be prepared to advise their customers on the matter. We have examined the "Wigmore" bedside table, made by Messrs. Allen & Hanburys, Ltd., Bethnal Green, London, E., and find that it affords all recent improvements for stability and mobility at a moderate price, viz. 31s. 6d. retail (wholesale, 26s., including crate and packing). The four feet of the enamelled iron stands are well out of the way. The adjustments allow for raising, tilting (either way), and rotation of the walnut table, which is fitted with a steel frame and clips, making it serviceable for meals or as a writing and reading desk. We have also examined the "Wigmore" set of sterilised surgical dressings, specially designed for major operations. The dressings are put up complete in a special aseptic tin case, and are steam-sterilised at 270° C. The different dressings are so packed that the operator finds them to hand in the order required. The complete outfit, comprising overalls, caps, towels, dressings, mops, pads, and bandages costs 3*l*., but refills are charged according to the amount consumed, the maximum being 10s. 6d. Hire of the outfit, including dressings consumed, costs 15s. 6d. The firm's "Tetra" compresses and bandages consist of two-fold or four-fold gauze, with woven edge. They are obtainable in a generous range of sizes, as also closely woven compresses or "Tetra" Tissue Serre. The compresses are exceedingly useful in surgical operations, since they serve as towel, sponge or dressing. They are washable, and can be sterilised for use several times. Operating clothing is another special department with the firm, and particulars can be obtained from their Bethnal Green offices. Aseptic

outfits can always be ordered by telephone from their establishment at 48 Wigmore Street, London, W., at any time of the day or night.

DALLOFF TEA.—The sole agency for this speciality has been transferred to Messrs. A. S. Wehner & Co., 57-60 Holborn Viaduct, London, E.C.

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed



from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

Business Changes.

Properly authenticated business notices (not being advertisements) are inserted in this section free of charge if promptly communicated to the Editor.

THE ANGLO-INDIAN CHEMICAL AGENCY has removed to 39 Mincing Lane, London, E.C.

MR. L. WILLIAMS, chemist and druggist, has purchased the business of Mr. W. E. Pettinger, 17 College Parade, Kilburn, N.W.

MR. W. W. THOMAS, chemist and druggist, late of Westgate-on-Sea, has recently opened a pharmacy at Knaphill, near Woking.

THE HUTCHINSON CO., LTD., 70 Basinghall Street, E.C., have taken additional large basements for stocking purposes adjacent to their London warehouse.

MR. ARTHUR A. WHITE, pharmacist, Beaconsfield, has removed his business from Windsor Road to more spacious premises in the High Street, which still retain the old-style oak beams, panelled walls, and fireplace with dog grate. The fittings of the pharmacy have been arranged to preserve the general appearance of the ancient place.

SWISS CHEMICAL-TRADE.—Last year the imports of industrial chemicals declined about 3 per cent., but exports increased by 341,000*f.* in value, this being partly due to larger shipments of calcium carbide and sodium salts. The demand for aniline dyes fell considerably, the export figures for 1908 being 19,657,183*f.*, against 21,935,404*f.* in 1907; the decline in exports to the United States alone amounting to 872,485*f.* There was a considerable increase in the imports of pharmaceutical products.

Birth.

EADDIE.—At Parkfield Pharmacy, Beeston, on December 16, the wife of Walter Eaddie, pharmaceutical chemist, of a daughter.

Marriages.

GRIMSHAW—MOFFETT.—At St. Barnabas Church, Belfast, by the Rev. R. Walker, LL.D., Henry E. Grimshaw, pharmaceutical chemist, eldest son of Mr. E. Grimshaw, Chicago, to Anna H. Moffett, eldest daughter of Mr. James Moffett, Belfast.

HUNTER—SUTHERLAND.—At Fraserburgh, on December 4, by the Rev. M. P. Johnstone, assisted by the Rev. J. E. Stokes Little, Dr. Richard H. Hunter, Leven, to Alexandra Wilkinson, daughter of the late Mr. A. M. Sutherland, chemist, Rosario, Argentina.

McCONNELL—ALLAN.—At Howwood Hotel, Howwood, on December 14, by the Rev. Mr. Gilbert, Howwood, Samuel McConnell, chemist, Johnstone, to Annie Innis, younger daughter of Mr. James Allan, Howwood.

Deaths.

ARMSTRONG.—At The Nursing Home, 210 Clapham Road, London, S.W., on December 21, Mr. Frank Armstrong, chemist and druggist, after a prolonged illness. Mr. Armstrong had, as demonstrator at Muter's South



MR. ARMSTRONG.

London School of Pharmacy during the past twenty five years, helped a large proportion of the present generation of chemists over the Minor style. Many old Muter's men will recall his interesting personality and genial manner. His "tips" in pharmacy frequently caused comment among pharmaceutical examiners to whom his methods were unknown, but they all bore the stamp of practical value. His *chef d'aure* was his method for making linimentum terebinthinae, B.P., and the now examiner in pharmacy when watching a Muter's man making this favourite of the Minor dispensing papers was wont to wonder at the transformation of a weird mixture into a smooth emulsion. Mr. Armstrong was a native of Cumberland, and served his apprenticeship in a country pharmacy, then went to Dr. Muter for the Minor, which he passed in December 1882. He remained at the College, and never left it until his last illness.

AXE.—On December 15, at Winthorpe Lodge, near Newark, Professor John Wortley Axe, ex-President of the Royal College of Veterinary Surgeons, and late Lecturer at the Royal Veterinary College and at the Agricultural Colleges of Downton and Wye, and Chief Veterinary Inspector to the Surrey County Council.

HANCOCK.—On December 4, Mr. William Henry Hancock, chemist and druggist, High Street, Wotton-under-Edge, aged seventy-eight.

HANDS.—On December 14, after a long illness, Mr. William Hands, pharmaceutical chemist, 152 High Street, Cheltenham, aged seventy-seven. Mr. Hands served on the local Town Council and Board of Guardians for several years.

JOHNSON.—On December 4, Salome, wife of Mr. Edward Johnson (Bourne, Johnson & Latimer), aged seventy-three.

MILLWARD.—At East Park Terrace, Southampton, on December 12, Mr. Frederick Millward, chemist and druggist, manager for Messrs. Boots, Ltd., Above Bar, Southampton, aged forty-three.

YATES.—On December 19, at Sunny Bank, Oswaldtwistle, Catherine, daughter of Mr. Daniel Yates, chemist and druggist, Blackburn, aged thirty-three.

INFORMATION DEPARTMENT

The object of this department is to supply our subscribers with the names and addresses of manufacturers and agents, or other business information which they may be in need of. Inquiries should be sent by post, addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Information Wanted.

We would be obliged if readers would reply, by postcard or otherwise, to any of the subjoined inquiries. Replies should be addressed to the "Information Department of 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

20/25. Address of the Oakenlough Co., makers of filter-papers.
20/61. Who makes a liquid preparation of henna for the hair to retail at 2d. per oz.?

18/19. Source of supply of a "weight-reducing capsule" put up by "Dubar & Cie., Paris."

22/23. Makers of insect-powder bellows, "No. 14," believed to be of Continental manufacture, which has a red band with pictures of flies, spider's web, etc.

Information Supplied.

In reply to inquiries, information has been sent during the past week to subscribers and others by our Information Department in regard to the following subjects. The information will be repeated to any others requiring it who send a stamped and addressed envelope for the purpose to the Information Department as above.

Atwood's Bitters, proprietors	Medical coils, batteries, &c., (21/29).
Cassell's (Dr.) tablets, makers	suppliers (wholesale) (100/28). Olive-oil bottles, triangle trade-mark, makers (11/56).
Calcium Sulphonaphtholinate,	"Pama-Ala," makers (15/3).
"Clemak" safety razors,	Pasteur Chamberland filters, supply (21/32).
Combs (various), actual makers	Patey's specialities, makers' address (17/59).
Dispensing-scales (special)	Pharm. Soc. coat of arms, reproductions (20/49).
Dog medicines, specialists	Pomades with celluloid caps, Continental makers (18/18).
Fundusscopes, supply	Rainey's specialities, maker (18/8).
"Gomenol," supply (21/50).	Sartorius balance, supply (19/5).
Grubler's stains, supply (13/64).	"Sidonal," makers (19/5).
Hayman's Balsam of Horchhound,	Veterinary appliances, makers (13/47).
proprietor (15/25).	"Licerax," suppliers (17/66).

Recent Wills.

MR. FRANK BISHOP, lately managing director of Messrs Marion & Co., Ltd., Soho Square, London, W., who died on November 12, aged seventy-one, left estate of the gross value of £6,619⁷. 4s. 11d., with net personality £1,987¹. 19s. 3d.

MR. EDWARD CHEESEMAN, of Messrs. Osborne, Bauer & Cheeseman, 19 Golden Square, Regent Street, W., who died on December 4, aged seventy-four, left estate valued at £2,327¹. 7s. 7d. gross, of which £2,204¹. 14s. 10d. is net personality.

MR. GEORGE WILSON, formerly in business as a chemist and druggist, afterwards manager and subsequently director of the York Glass Works, Ltd., who died on October 13, aged eighty-nine, left estate of the gross value of £53,290¹. 19s. 4d., of which the net personality has been sworn at £42,046¹. 12s. 3d.

DR. CHARLES GRAHAM, D.Sc., F.I.C., F.C.S., at one time Professor of Chemistry at University College, London, who died on November 13 last, aged seventy-four, left estate of the gross value of £47,782¹. 17s. 9d., of which the net personality has been sworn at £47,443¹. 7s. 4d. After various bequests he left the residue of his estate, probably about £5,000¹, to the Senate of the University of London to found a fund, to be known as the "Charles Graham Medical Research Fund," to be applied by them in aid of any research carried on by a teacher or student of the School of Advanced Medical Studies of the University College Hospital.

Observations and Reflections.

By Xrayser II.

"Tis better to have fought and lost

Than never to have fought at all," sings Mr. J. W. Holmes with reference to the Society's recent action; but does not that depend a good deal upon the sort of fight you have made of it? As Clough, anticipating Tennyson's more famous lines on love, said it of that gallant struggle at Peschiera it is doubtless true; but is it true of such a fight (say rather such a series of "regrettable incidents") as we have lately seen in the pharmaceutical world? This is more than questionable.

The Card-index System

is so eminently suited for locating the position and giving particulars as to cost and selling price, etc., of the contents of a chemist's shop, that it is surprising to find it spoken of as something new. It has been in use, it is true, in some of the drug-stores, but, as Mr. McKellar stated in the very interesting account he gave of his own experience of it, there are very few legitimate pharmacists who have taken the trouble to adopt the system. Now that its working has been clearly explained we may expect many go-ahead men will be anxious to follow Mr. McKellar's excellent example. I wonder if I may be in order in suggesting a further extension of its usefulness—namely, by a slight adaptation that will make the cards of constant educative value as well as aids to memory. The reverse side of the cards will, I presume, be blank; why not utilise this by writing on it useful particulars about the article named on the card? In the case of a new drug, for example, state its chief uses, dose, how best dispensed, and such-like items. This, no doubt, would take time, but it would be interesting work, and much of it could be delegated to an assistant or even the apprentice, to both of whom the cards when completed would be of very great value as an educative influence.

Levelling Up

by means of the curriculum is to be the next move, for now that the Pharmaceutical Council have got the power for which they have been crying for the last twenty years I presume they won't be happy till they exercise it. It is a curious circumstance that one result of the 1868 Act has been to level down pharmacy below the high standard that prevailed before that time. Perhaps, however, Mr. White is quite correct in thinking that the great men of to-day are not to be mentioned in the same breath with the giants of a past generation, and that not even the Bachelors of Science, who are now as thick as blackberries, can hold the candle to the men who directed pharmaceutical thought and legislation in the days of long ago. It is difficult to understand why this should be so, and the only explanation that occurs to me is that the B.Sc. degree of London University can be worked for without going through a "curriculum." If only that "blessed word" curriculum had been in force when our B.Sc.s were reading up for their exams., surely there would have been a few "distinguished persons" left to uphold the banner of British pharmacy. But are the leading pharmacists of to-day not as good as the men of forty or fifty years ago? I venture to say that pharmaceutically they are, but in administrative ability, diplomatic skill, and political weight they are not. Our best men are now on the wholesale side, and wholesalers are barred from participation in the administrative part of pharmaceutical affairs, which is a loss to the whole trade.

The Bee-sting Cure for Rheumatism

says a correspondent of "Notes and Queries" (10 S. XII. 295) appears now to be accepted in medical practice, and has been tested in a London hospital. In support of the latter assertion a passage is quoted from the "Morning Post" describing the process employed in the test, but not giving the result. Whatever this may have been, it is certain that many bee-keepers attribute their immunity from rheumatism to the frequent stings they receive. Asked whether the remedy was not as bad as the disease, a Lincolnshire man, who has had a large experience in beekeeping, assured me that stings are rather pleasant than otherwise when one is used to them. Seriously, he added, they cause little annoyance. The benefit derived from them has been attributed to the formic acid thus introduced into the system, acting as an antidote to the uric acid to which the rheumatism is due. It is somewhat curious in this connection that although bees have apparently never had a place in our recognised *materia medica* they had at one time a certain reputation as a cure for the stone. There is a receipt in the Common-place Book of Sir John Gibson, of Welbourn, near Kirkby Moor-side, the MS. of which is preserved in the British Museum (Add. MS. 37719), bearing witness to this. The book dates from the time of Sir John's imprisonment as a recalcitrant Royalist in Durham Castle (*circ. 1655-60*) and the receipt—which is one of several for the same complaint—is as follows:

"Take six hive bees and drye them well before the fire on some flax, and then beat them to powder and put it into a quart of ale and drinke it, and it will provoke urine."

No better Exposition

has been made of the importance of the word "Pharmacy" to the pharmacist, and no stronger reason given for its protection than by Mr. Tocher, of Peterhead, as reported in the Coloured Supplement of the *C. & D.* last week. Mr. Tocher showed with convincing clearness that the word means much more to us than "Surgery" to the surgeon, although this too is important enough. The suggestion that surgeons might possibly be induced to act with pharmacists with a view to getting both words protected seems a good one. Mr. Tocher's concluding remarks were not quite so effective as the earlier part of his speech. How (he asked) are we to avoid a repetition of the blunder of 1880? Not by passing resolutions and sending them to the Council: that (he said) is not enough; we must "convince the Legislature that the Council have chemists at their back." But how is this to be done except by resolutions to the Council? By approaching the Legislature independently of the Council? This would at the best be a difficult, cumbersome, and ineffective way, and might possibly prove a positive hindrance to our purpose. There remains only the course which the Society has always insisted upon as essential to its efficient parliamentary action—that is, that all chemists should at once join the Society. Is this what Mr. Tocher means? If so, he is merely beating the air. One is constrained to ask whether it is too late for the Society to gain the confidence of the trade as a whole? Has not the time come when by frankly confessing its mistakes, and inviting more cordial relations with the outsiders, these might be won over to such united action with it as should constitute a "mandate," at least for the present crisis? But the first step must be taken by the Society itself.

THE DEATH is reported from Berlin, on December 13, of Dr. Maximilian Marsson, an authority on analysis. He was an apotheker, and was at one time the proprietor of various pharmacies.

DISINFECTANTS

We manufacture all sorts with guaranteed co-efficiencies up to 30 by the standardised B. Typhosus test.

Our Scientific Laboratories are thoroughly equipped for Chemical and Bacteriological work, and we are prepared to undertake the determination of Co-efficients for the trade.

THE "SANITAS" COMPANY, Limited,
Locksley Street, Limehouse, London, E.

C. T. KINGZETT, F.I.C., F.C.S., Managing Director.

FRENCH
and all Foreign
**PROPRIETARY
MEDICINES**
can be obtained from
WILCOX, JOZEAU & CO.
49 Haymarket London SW
Price List on Application
Special Export Terms
Foreign Prescriptions
dispensed for
Pharmacists

The Right Way

DO you realise how much less your advertising may cost if you place it through us?

We return all commission, rebates and discounts and we charge an agreed percentage on the *nett* amount spent for our services.

We only act for advertisers of absolutely sound financial standing : if you will make an appointment, we can demonstrate the saving to you. You cannot realise it in any other way.

We will submit some details of our service on request.

W · H · SMITH & SON
Advertising Agents
H · E · MORGAN :: Controller
55 FETTER LANE E C ·

JEWSBURY & BROWN'S ORIENTAL TOOTH PASTE

S.V.M.

Jas. Burrough Ltd.

METHYLATED SPIRIT
Also RECTIFIED SPIRIT.

S.V.R.

Cale Distillery, Hutton Road,
LAMBETH S.E.

"MILK OF MAGNESIA"

(Registered Trade Mark)

(PHILLIPS')

For special terms apply to THE CHARLES H. PHILLIPS CHEMICAL CO.,
14 Henrietta Street, Covent Garden, W.C.

FLETCHERS' FOR TINCTURES, INFUSIONS,
CONCENTRATED AND SYRUPS.
LIQUORS

Editorial Comments.

South African Union.

LEADERS of pharmacy in South Africa have from time to time expressed the opinion that pharmaceutical forces in the Colonies should be united, so as to provide a uniform system of examination and registration in all the Colonies, and the same law in each. The Federation of the Colonies appears to present a good opportunity for the discussion of the subject, and we are informed that a meeting is likely to be called at Bloemfontein of representatives of all the Pharmacy Boards to consider the basis of union. There is not at present throughout the rank and file of the trade in South Africa any particular desire for union of one Colony with another as regards pharmaceutical matters, but the sooner they take an interest the better it will be for themselves, as Government leaders may bring it about without much consultation with pharmacists if they do not take care, especially as the movement for medical union is further ahead and may carry pharmacy with it. We presume that as regards qualification the idea will be to follow the precedent of Great Britain, which is one registering authority and an Examining Board in each Colony, say, the South African Board of Pharmacy with the Cape, Natal, Orange River Colony, and Transvaal Boards of Examiners.

The certificates of any one of these would entitle holders to practise in any part of the Union. Agreement on that principle would doubtless be the first point for consideration, and when it is accepted the standard of qualification would be considered and decided. The proposed Conference at Bloemfontein will probably have Government support, so that delegates from the other three Colonies will be able to participate without personal expense, two delegates being appointed by each board. Our correspondent in Orange River Colony gives some particulars about the preliminary arrangements on p. 955, Dr. Pratt Yule, the Colonial Medical Officer, having moved in the matter.

Java Cinchona Syndicate.

FREQUENT reference has been made in recent issues of the *C. & D.* to the steps which are being taken by prominent cinchona-planting concerns in Java to limit the output of cinchona, and to obtain a minimum price of 6c. per unit for their produce. There are, of course, numerous interests to be conciliated, or even to be fought, in engineering a movement of this kind, so progress is slow. But, judging from the proceedings at a recent meeting of the Preanger Cinchona Bond, the desired end is almost in sight. The meeting in question was held on October 18 last. At a previous meeting it was arranged that an extraordinary meeting of the Bond was to be held to consider the whole question, but in the meantime it was realised that Dr. Treub, the Director of the Department of Agriculture in Java, would be retiring very shortly, and it was desired to settle matters before he left. The President and the Secretary of the Bond for that reason took matters into their own hands and interviewed the Governor-General of the Dutch East Indies on September 19 with a view to securing the support of the Government for the proposed limitation. This object appears to have been achieved, and the output of the Government plantations is to be reduced from 2,000,000 to 1,500,000 kilos. of bark. Some planters resented this strong action of the Bond officials, but the great majority at the meeting approved of it.

The weak point of the whole situation from the planters' point of view is the attitude of the Bandong Quinine Factory. Heer van Leersum, the director of the Government plantations, briefly reviewed the position at the meeting. He pointed out that the Bandong Factory was at first essentially a planters' factory, and that in the days when bark was scarce its attitude was all that could be desired, and it even paid a bonus for increased production. Lately, however, it has sided more and more with the quinine-maker, has withdrawn its bonus, and for the last two years has paid as a maximum 4c. per unit for its bark. Moreover, the factory is now in a very strong position. At the end of 1907 it had in stock 30,000 kilos. of quinine, and in 1908 this had increased to 78,000 kilos., though the capital of the company was only 400,000 florins (see *C. & D.*, December 11, p. 912). It is not to be wondered at, then, Heer van Leersum said, that the directors of the factory turn a deaf ear to the planters' entreaties, especially as there is reason to believe that they have entered into some kind of understanding with a group of quinine-manufacturers in Europe. After hearing Heer van Leersum's statement, the meeting resolved that the output of bark must be brought down from 10,500,000 kilos. to 8,000,000 kilos., this being the supposed actual demand at the present time. In the meantime the Bond officials were instructed to publish widely a statement of the planters' position in the matter and that of the Bandong Factory, with a view to influencing the directors of the factory through adverse public opinion.

Railway Rates on Drugs and Chemicals.

We understand that the memorial for reclassification of drugs and chemicals, which was inaugurated and carried to completion by the Chemical Section of the London Chamber of Commerce at the suggestion of Mr. John C. Umney, the chairman, bore 966 signatures, and was forwarded to the Railway Clearing-house last week. Among the supporters of the memorial were the Association of Wholesale Druggists and Manufacturers of Medicinal Preparations, the Drug Club, the Federation of Pharmaceutical Associations, the London and Provincial Drug-stores' Association, the Pharmaceutical Society of Great Britain and the N.B. Branch, the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, the P.A.T.A., St. Vincent Association, and the Chemists' Associations in Aberdeen, Cardiff, Dover, Dundee, Eastbourne, Edinburgh, Glasgow, Halifax, Lancaster, Lincoln, Manchester, Midlands, N.E. Lancashire, Oldham, Plymouth, Torquay, and Wolverhampton. The Chambers of Commerce in Aberdeen, Bath, Belfast, Bradford, Brighouse, Bristol, Cardiff, Cheltenham, Derby, Dundee, Glasgow, Halifax, Leeds, Liverpool, Luton, Manchester, Reigate and Redhill, Sunderland, West Ham, and Yeadon and Guiseley also supported the London Chamber. The movement only requires the railway authorities' agreement to cap its success.

The Medical Profession in the British Empire.

The publication by Messrs. Churchill of "The Medical Directory" for 1910 gives an opportunity of a glance at the numerical position of practitioners of medicine and surgery who hold qualifications that are registrable in the United Kingdom. The "Directory" is familiar to many engaged in pharmacy, but we may say that it is prefaced with an abstract of the principal laws affecting the medical profession, a list of the General Medical Council members and officers, of the medical department of the King's household, of particular distinctions held by medical men, and a new list of the principal British spas and health-resorts and other useful reference-matter. The "Directory" proper is divided into (1) London, (2) Provinces, (3) Wales, (4) Scotland, (5) Ireland, (6) Parts abroad, (7) The Services, and (8) Dentists. In respect to each person entered full particulars of qualifications and distinctions are given, and from these one may fairly judge of their capabilities and learn which branch has been specialised in. During the past ten years the names in the "Directory" have increased from 36,354 in 1901 to 40,558 in the present edition. They are disposed as follows (the figures in parentheses being those for 1901): London, 6,427 (6,223); Provinces, 17,568 (16,113); Wales, 1,403 (1,165); Scotland, 3,947 (3,569); Ireland, 2,723 (2,576); Abroad, 5,188 (3,910); and Services, 3,302 (2,798). These figures suggest that there is still much overcrowding of the medical profession. Allowing for the increase of population, we find that in London in 1901 there was one medical practitioner to 730 of population, and this year one to 786; in the English provinces in 1901 there was one to 1,640, and this year one to 1,600; in Wales in 1901 the ratio was one to 1,560, and is now one to 1,500; while in Scotland ten years ago there was one to 1,250, and now one to 1,240. These proportions are, of course, approximate, as the populations for 1910 are estimated, but for 1901 the census figures of population are the basis. London is still terribly congested medically, although it is the only part where the proportion has expanded.

Tariff Reform.

"I am not a politician," says Mr. John C. Umney, writing to "Public Opinion," as chairman of the chemical

section of the London Chamber of Commerce, to emphasise the supreme danger to commerce and industry of delegating to political factions such a problem as the imposition of protective Customs duties upon imported goods. Mr. Umney suggests that the matter should be looked at as a national one, above party politics, and essentially commercial; therefore he submits the following suggestion:—

"A thorough business inquiry into the desirability or otherwise of Tariff Reform should forthwith be instituted, with the direct and sincere object of preparing, if necessary, a scientific concrete tariff by those whose standing in their particular businesses would enable them to focus the genuine non-political and judicious opinion of their fellow-traders. Tariff Reform is essentially a question for experts, and it seems to me that the machinery for conducting a proper inquiry, and for collecting, digesting, and discussing all the necessary data already exists in connection with the Chambers of Commerce, which now have an excellent opportunity of rendering our country a service of which the importance could hardly be exaggerated. The various sections of the Chambers of Commerce should, as local conditions of industry are found to demand, appoint small acting committees to consider the matter in all its bearings, and to receive and sift evidence from all their members, who as a rule are fully competent and strongly representative. Having considered such evidence, the acting committees should then report to a special committee representative of the Associated Chambers of Commerce. This committee should then be called upon to give evidence before a Royal Commission, so constituted as to include due representation of all interests."

It would be interesting to know how this practical suggestion is received. The greatest difficulty in the Tariff Reform problem is to get people to apply to it their own knowledge of trade facts. Mr. Umney truly says: "If every man engaged in a representative commercial and industrial calling would sit down and calmly think out what effect an organised tariff would have on his own business, we should get, instead of the present nebulous and amorphous mass of special pleading, a concrete body of practical conclusions on Tariff Reform which should at least enable us to form settled convictions."

"C. & D. Diary, 1910."

COMPETITION FOR TEN GUINEAS.

Each copy of the *Diary* sent out contained a coupon with two postcards for return to us, as a result of which competitors may obtain a share of ten guineas in prizes which we offer. One card is for answers to the following five questions:

Vote for your favourite business house among those advertising in the *Diary*.

Vote for your favourite business house not advertising in the *Diary*.

What page among the *Diary* advertisements do you like best?

Which is the best-designed advertisement in the *Diary*?

Which advertisement in the *Diary* is best calculated to induce business?

Card 2 provides an exercise in sentence-forming, the idea being to take any twenty words (or fewer) occurring in the *Diary* advertisements, and form with them a readable sentence. At least six half-guineas will be appropriated to the best sentences received. The competition is open to *C. & D.* subscribers, their staffs, and families. Cards must be posted in Europe not later than January 15, 1910, and a fortnight later in other parts of the world. It may be of service to competitors to learn the sort of thing that Card 2 is furnishing, so we quote the first one received from abroad, the figures underneath representing the advertisement-pages from which the words are selected:

The live business man of to day obtained success by constantly
25 125 26 110 27 308 474 316 46 271
advertising his specialities in THE CHEMIST AND DRUGGIST; try it.
iii 105 284 39 iv 546 10 55 49 150.

There are many ways of forming such sentences; a simple method is, first get the sentence which you think is catching, then look through the advertisements for the words. Another: Pick out from the advertisements fifty or sixty words of all kinds, write each on a slip of paper or small card (with page), and arrange them into sentences. An amusing and pleasurable evening's entertainment is the immediate result. The best of the sentences should be written on Card 2 and posted to us.

ERRATA.

"Tyriamine" (p. 231) is, of course, tyramine, and is Messrs. Burroughs Wellcome & Co.'s trade-mark.

Telegraphic addresses. The following entry should be made in its proper place on p. 191: Perken, Son & Co., Ltd., "Optimus, London," and Central 4515.—Will subscribers also alter the telegraphic address of the J. D. Riedel Co., 54 Cannon Street, E.C., to "Salipyrin, London," and the telephone number to "City 1035?"

Buyers' Guide.—We will be glad if subscribers would add to the entry "Trade-marks Agents," p. 188, the folio "208," and on p. 185 make an entry "Patent Agents, 208." These refer to Mr. Reginald W. Barker's advertisement. In the space following it the page should be 85 (not 84), the reference being to the advertisement of Cupal, Ltd.

The price of Thiocol powder in the advertisement of the Hoffmann-La Roche Chemical-works, Ltd. (p. 325), should be 3s. per oz. bottle instead of 2s.

BALLADE OF THE "C. & D. DIARY."

When doleful dumps do me oppress,
When business flags, and sales are slow;
When fog or frost the world possess,
And north and east alternate blow;
When life, that's "all a fleeting show,"
Is yet not fleet enough for me,
I turn me to my shelves, and lo!
The *Diary* of the *C. & D.*

Some motto culled with rare *finesse*,
Some maxim sage from Young or Lowe,
And life, that seemed a hopeless mess,
Takes roseate hues again, I trow;
My torpid blood resumes its flow;
And when "the Missis" calls to tea,
I grudge to leave it, though I go—
The *Diary* of the *C. & D.*

When seeking for some lost address,
Of Dr. Brown, or Jones & Co.;
Or when in doubt, or more or less,
Regarding Noil or Persio;
Or when some point of law, or so,
I wish to solve without a fee,
What helps me then? Of course, you know—
The *Diary* of the *C. & D.*

Envoy.

Friend pharmacist, if in your row
Of books this book I do not see,
I fain would recommend to you
The *Diary* of the *C. & D.*—C.B. (18/14.)

APPRECIATIONS.

Most hearty congratulations on *Diary*. Both ornamental to any desk and most useful, containing real "*l. s. d.*" information. The *Diary* alone is worth the year's subscription for the *C. & D.*—J. T. Appleton.

Your *Diary* is the surprise of the pharmacist's postal bag this week, and all wonder how the thing is done on an annual subscription of half-a-sovereign. The first quotation in it, attributed to Mr. T. Tyrer, was uttered by him when Chairman at the conjoint smoking-concert held in Birmingham last year.—M. P. S. (20/90.)

B.P.C. Research List.

THE following subjects are suggested by the Executive Committee of the British Pharmaceutical Conference for investigation. The Committee hopes that members will undertake to work on one or more of these questions. It will be noted that several subjects have already been appropriated. In order to avoid duplication, the Hon. Secretaries trust that members will communicate to them their intention of working at any of the subjects. They also direct attention to the fact that a special fund exists to defray expenses connected with research-work. The Executive Committee will be glad to receive applications from members for grants from this fund; such applications should be addressed to the Hon. Secretaries, B.P.C., 17 Bloomsbury Square, London, W.C.

Materia Medica

1. Aloin.—A research is needed on the proportion of aloin and non-resinous constituents in the different varieties of aloes.

2. ASAFTIDA.—Determination of the volatile oil in various samples and grades of the drug should be made. (Already undertaken.)

3. CALABAR BEAN.—A research is needed with the object of ascertaining the relative proportions of the different bases present in this drug.

4. COLCHICUM.—A comparison of the published processes for the assay of colchicum and its preparations. (Already undertaken.)

5. THE VALUE OF COLD STORAGE for drugs, herbs, and medicinal plants requires investigation.

6. GELSEMIUM-ROOT.—Required, an investigation into the relative proportion of gelsemine and gelseminine.

7. HORS.—How can the bitter principle best be isolated and quantitatively determined?

8. MALE FERN.—The chemistry and pharmacy of this drug both require investigation.

9. PODOPHYLLUM EMODI is official in the B.P. Addendum as a source of resin for use in India and the Colonies. Should it not also be included in the next edition of the ordinary British Pharmacopoeia? (Already undertaken.)

10. RUBBER when frozen becomes hard and brittle. Could advantage be taken of this property of bodies for the powdering of drugs which readily undergo change on drying by heat?

11. STROPHANTHUS.—An examination of the published methods of separating the different active principles obtained from the seeds is needed with a view of recommending a standard process. [See "Year-book," 1898, 54, 162; 1899, 59; 1901, 167; also "P.J." (4), 6, 385, 506.] The seeds in commerce are frequently mixed. Further information is desirable as to the active principles they severally contain.

12. TANNIN.—A ready and tolerably accurate method for the determination of the tannin in various astringent drugs is required.

13. VERATRINE.—Should a pure veratrine be included in the British Pharmacopoeia rather than the mixture of alkaloids now official? If so, suggest a process for its purification.

14. ZINC.—To what extent is zinc found in the ash of drugs?

Chemistry.

15. CHEMICAL investigation of the following drugs is required: *Cereus grandiflorus*, *cassia fistula*, *serenoa serrulata* (saw palmetto), *arnica montana*, *monsonia ovata*, *monsonia biflora*, *thuja occidentalis*, *ranunculus ficaria*, *tanacetum vulgare*, etc., *sennecio jacobaea*, and *achillea millefolium*.

16. The chemistry of the following drugs requires extension: *Aletris farinosa*, *cascara sagrada*, *coco-cynth*, *damiana*, *ergot*, *lobelia*, *rhubarb*, *senega*, and *senna*.

17. APOMORPHINE.—Do solutions of salts of this alkaloid retain their potency after coloration has taken place?

18. CALX SULPHURAT.—An investigation of the processes of manufacture and purity of commercial samples is needed. (Already undertaken.)

19. An analytical chart for the detection of the synthetic remedies would be useful.

20. DIABETIC FOODS.—Commercial diabetic foods require examination.

21. ESTERS.—Examination of commercial esters, such as ethyl acetate, ethyl butyrate, and amyl acetate, would be useful.

22. INDICATORS.—Can some of the artificial colours which are only affected by mineral acids be used to determine the strength of preparations such as liquor plumbi subacetatis?

23. OIL OF ANISE.—The effect of age on the melting-point and specific gravity needs investigation.

24. SOLVENTS.—Experiments are needed with a view to extending the use of solvents such as acetone, carbon tetrachloride, petroleum ether, etc., in pharmacy.

25. URIC ACID.—A comparison of the processes for the estimation of uric acid would be useful.

Pharmacopedy and Pharmacy.

26. CAMPHOR.—Processes are required for the estimation of the camphor in some of the official preparations. (Already undertaken.)

27. CANNABIS INDICA.—Required, standard strengths for the official preparations of this drug and processes for their determination, also the difference in yield of resin, cannabin, and cannabinoil between the guaza of Bombay, the ganja of Calcutta, and other commercial varieties of cannabis. African guaza is now coming into the market—a comparison of its properties with those of cannabis indica would be of value.

28. COLOCYNTH.—What is the effect of heat on colocynth in making the compound extract?

29. ERGOT.—A re-investigation of the pharmacy of this drug in the light of recent chemical work is required, and a method of determining the activity of the galenical preparations.

30. FERMENTS.—The action of ferments in inducing change in galenical preparations should be studied.

31. FORMALDEHYDE.—The examination of commercial samples is required.

32. FORMULE.—Improved formulae are required for the administration of nauseous drugs.

33. GUM RESINS.—The value of the saponification-numbers in determining the identity and purity of the resin of gum resins.

34. JAPANESE CHILLIES AND JAPANESE GINGER.—Determination of the botanical source and comparison of the structure with that of the official drug is required. (Already undertaken.)

35. MORPHINE.—Can the process described in the "Year-book of Pharmacy," 1907, p. 107, for the determination of morphine be applied to opium and its preparations?

36. OIL OF SOYA BEAN has become an important article of commerce. Can it be utilised in pharmacy?

37. OINTMENTS.—The melting-point of the official ointments is required.

38. PILLS.—A systematic investigation is required of the times necessary for the solution or disintegration of pills prepared with different excipients and kept for various periods of time.

39. QUILLIAEA-BARK.—Experiments to determine the best solvent for exhausting this bark for the purpose of making emulsifying-agents, and a comparison of the genuine bark with the thin bark at present in commerce.

40. CONCENTRATED TINCTURES.—An examination of commercial samples is required.

Mr. Glyn-Jones's Candidature.

The most ardent Radical in the East End does not anticipate that there is any possibility of Mr. Glyn-Jones ousting Mr. Leverton Harris, M.P., in Stepney. The machinery of the local Liberals is not in anything like the good order of that of their opponents, and most people will be surprised if Mr. Harris does not equal his splendid majority at the by-election, although the electorate continues to decrease.

So said the "Daily Telegraph" on Tuesday; nevertheless Mr. Glyn-Jones has been quietly and steadily working in the constituency for the past two months, devoting his time chiefly to thorough reorganisation, and as a result the Liberal party in the district has never been so well organised as it is now. So a neighbouring M.P. assured a *C. & D.* representative who attended Mr. Glyn-Jones's first public meeting of the electors, which was held in Stepney Meeting Hall, Garden Street, last Saturday evening. The Right Hon. Herbert Samuel, M.P., Chancellor of the Duchy of Lancaster, was the principal speaker, and Mr. Glyn-Jones presided. There were also on the platform Mr. Stuart M. Samuel, M.P. for Whitechapel; Mr. Bertram S. Strauss, M.P. for Mile End; the Rev. Thomas Warren, Mr. John Brown, and others. The attendance numbered about a thousand and the proceedings were enthusiastic throughout. There was an excellent corps of stewards, among them half-a-dozen pharmaceutical chemists. Mr. Herbert Samuel gave a long address in excellent manner. In the course of his speech he said that he had made Mr. Glyn-Jones's acquaintance last year, when, as Under-Secretary for Home Affairs, he had charge of the Poisons and Pharmacy Bill in the House of Commons. The subject of that Bill was, he said, one of which Mr. Glyn-Jones had deep and extensive knowledge, which had been of great value to him (Mr. Samuel). Moreover, Mr. Glyn-Jones had brought together the parties concerned in the Bill, and it was entirely owing to Mr. Glyn-Jones's conciliatory attitude, skill, and tact that the measure was now on the Statute-book. Mr. Samuel strongly recommended Mr. Glyn-Jones as a candidate for the representation of Stepney, adding that, with his deep knowledge, he would be a valuable man in the House of Commons, not only so far as pharmacy was concerned, but in general matters; while his acquaintance with the constituency through his long residence in it commended him especially to the people of Stepney. Mr. Samuel concluded his speech by proposing a motion in favour of Mr. Glyn-Jones's candidature, which was seconded by Mr. Stuart Samuel and supported by Mr. Warren and Mr. Strauss.

The Chemists' Candidate.

By a Steward.

SOME people live all their lives in London without ever exploring the neighbourhood east of Aldgate. This is partly due to the huge size of the Metropolis, and also because the East End is thought to offer few attractions in the matter of sight-seeing. Yet the district contains some features of very great interest and has a fascination all its own. As a Parliamentary division the East End is rather picturesquely described as the Tower Hamlets, and consists of seven constituencies, of which the Stepney division is one. It contains over 60,000 inhabitants, but only 4,653 electors. At the 1906 election the Conservative majority was 547, but at a by-election in 1907 this was increased to 949. Nevertheless Mr. Glyn-Jones has more than a sporting chance of pulling that down considerably, and probably of being returned. Saturday's meeting was the most interesting that the party has held in the constituency for many years, as it is not often that a Cabinet Minister finds his way down to Stepney. Among the hundred stewards who helped, I was one of half-a-dozen pharmacists. Mr. Woolcock, the Secretary of the Pharmacists' Parliamentary Representation Committee, was lending a hand. The good feeling among the stewards seemed to be communicated to the audience, as I have seldom seen at a meeting where so much enthusiasm was displayed. The organisation of the meeting was first of all explained to the stewards before the public were admitted—white, red, and green tickets having a special significance. A certain number of stewards were told off as doorkeepers, and the rest sat at the end of the rows of seats or formed a line across the back of the hall. Instructions had been given as to how to act in case of a disturbance, but these were not required to be carried out, as the only interruptions were of a friendly nature. The hall holds about 1,000 people, and a scrutiny of the tickets showed that over 700 electors were present. Mr. Herbert Samuel (Chancellor of the Duchy of Lancaster) arrived a little after eight in a magnificent motor-car, and a few women suffragists greeted him with a shout of "Votes for women!" In the hall he was accorded a rousing reception and listened to with great attention. It ought to be explained that in

Stepney there is a large Jewish vote, and Mr. Samuel, as "the only Jew in the Cabinet," received an unusual ovation. His visit is of great importance in influencing the electors and is another omen in favour of Mr. Glyn-Jones. It is not the purpose of this note to report the proceedings of the evening, but it was interesting to hear the references made to the controversial matters of the day and the response given by the audience. Pharmaceutical points cropped up several times. Chemists who would like to assist the chemists' candidate—and there must be many who can give a few hours in the evening—should communicate with Mr. Glyn-Jones. The committee-rooms are at 422 Mile End Road, opposite the People's Palace, and are in charge of Mr. R. C. Gibbs.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications should be lodged with Mr. Temple Franks, Comptroller-General of Patents, Designs, and Trade-marks, at the Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned. The objection must be stated on Trade-marks Form No. 7, cost £1, obtainable through any money-order office. The figures in parentheses refer to the classes applied for.

(From the "Trade-marks Journal," December 1, 1909.)

- "KIM"; for aerated waters (44). By Bratby & Hincliffe, Ltd., Sandford Street, Great Ancoats, Manchester. 315,972.
- "MYSANTAL"; for tooth-brushes (50). By H. F. C. Meyer, 55 Berers Street, London, W. 308,766.
- "GENIL"; for a furniture-polish (50). By John Bell, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, London, S.E. 317,335.

(From the "Trade-marks Journal," December 8, 1909.)

- "FILEXTRA"; for chemicals (1). By Pinchin, Johnson & Co., Ltd., 26 and 27 Bevis Marks, London, E.C. 317,853.
- "MOXVITA"; for all goods (3). By H. N. Warren, 121 St. Domingo Road, Liverpool. 315,427.

Devil and foot device; for a corn-cure (3) and for all goods (48). By General Kaputine Syndicate, Ltd., Chald Lane, Wakefield. 316,712/3.

"ZANENE"; for a nerve-food (3). By Zanene Co., 416 Bury New Road, Manchester. 317,024.

Fac simile signature, "A. ELLIS"; for medicinal chemicals (3). By A. Ellis, 27 Surrey Lane, Battersea, London, S.W. 317,846.

Device of letters "P C & M" round five-pointed star; for enemas, douches, sprays, etc. (11). By Pirrelli, Ltd., 45 Basinghall Street, London, E.C. 317,389.

"VELOX"; for photographic paper (39). By Kodak, Ltd., 43 Clerkenwell Road, London, E.C. 311,795.

"LILYWHITE" and label device; for photographic paper (39). By A. F. Sergeant, New Brunswick Street, Halifax. 316,775.

"GYLENHAMMARS BABY FOOD," and label device; for baby food (42). By Aktiebolaget Gotoborgs Ris & Vals-Kvarn, 2 Packhusplatsen, Gothenburg. 311,073/4/5.

"W.J.B. GOLD MEDAL ESSENCES," and device of medals; for essences (42). By W. J. Bush & Co., Ltd., 28 Ash Grove, Hackney, N.E. 317,329.

"GALACTOVA"; for food-substances (42). By Casein, Ltd., Culvert Works, Sheepeote Lane, London, S.W. 317,418.

"VIN REGNO"; for alcoholic non-medicated beef wine (43). By C. Pearson, 116a Islington, Liverpool. 310,091.

"LYSOL"; for soaps (47). By Schulke & Mayr, 13 and 15 Moorfurtweg, Hamburg. 313,061.

"KALODONT," and label device; for a mouth-wash (48). By F. A. Sarg's Sohn & Co., 24 Alleegasse, Vienna. 310,318.

"IVALIN"; for a hair-preparation (48). By W. D. Gordon, 25 Whitburn Road, Lewisham, London, S.E. 317,059.

"EBLI"; for perfumery, etc. (48). By C. Hayward, 68 Queen's Road, Bayswater, London, W. 317,123.

(From the "Trade-marks Journal," December 15, 1909.)

"AGFA" and "NEROGEN"; for chemicals (1). By Berlin Aniline Co., Ltd., 26 Princess Street, Manchester. 317,272, 317,287.

"FLUIDO PEARSON," and facsimile signature; for chemicals (2). By Pearson's Antiseptic Co., Ltd., 15 Elm Street, Gray's Inn Road, London, W.C. 317,077.

"LIVELY POLLY"; for all goods (2). By J. Hargreaves & Son, Ltd., 81 Binns Road, Edge Lane, Liverpool. 317,364.

- "GLYCO-SAFOL"; for a liquid soap (2) and (47). "BISMOSAL"; for a medicine (3). By J. C. Arnfield & Sons, Ltd., 7 and 9 Lower Hillgate, Stockport. 317,910/11/12.
- "SELZO"; for medicinal chemicals (3). By F. W. Hampshire, Silk Mill Lane, Derby. 316,848.
- "FILUDINE"; for medicinal chemicals (3). By L. Graux, 11 Rue Villebois-Mareuil, Paris. 317,101.
- "TONCAPS"; for medicated capsules (3). By W. F. Beeney, 41 Queen Victoria Street, London, E.C. 317,376.
- "BIGESTIN"; for medicines (3). By J. Forbes, 10 Ocklyng Parade, Eastbourne. 317,567.
- "CREPOLINE"; for medicated paper (3). By Parke's Drug Stores, Ltd., 65 Harmood Street, London, N.W. 317,993.
- "GAMIR"; for medicinal chemicals (3). By Hippolyte Saunier, 52 Avenue de la Republique, Paris. 318,128.
- "LUKOS"; for photographic apparatus (8). By W. Butcher & Sons, Ltd., Camera House, Farringdon Avenue, London, E.C. 317,425.
- "VITREOSIL"; for fused silica ware (15). By Thermal Syndicate, Ltd., Neptune Road, Wallsend-on-Tyne. 317,494.
- Circular device; for mineral and aerated waters (44). By Clonard Mineral-water Co., 138 Falls Road, Belfast. 316,080.
- "MANON LESCAUT"; for perfumery, &c. (48). By E. Wertheimer & Cie., 60 and 62 Rue d'Hauteville, Paris. 316,100.

Practical Notes.*

By W. B. Cowie, Ph.C., F.C.S.

THERE seems to be an idea that oleate of zinc varies in composition according to the method of preparation. A sample was prepared from good hard soap and zinc sulphate in strict accordance with the official directions, and another from the same materials and by the same method, except that it was heated sufficiently to melt the oleate, which was well mixed with the hot water and then allowed to cool; this was repeated until it was free from sulphates. Each sample was examined, and the results are :

	Fatty Moisture	Acids	Melting-points of Fatty Acids	Zinc
Sample 1 (strictly B.P.)	4.3%	87.5%	27°-28° C.	9.2%
Sample 2 (melted)	3.6%	86.8%	26°-27° C.	9.1%

The results vary but slightly, the one made at the higher temperature containing 0.7% less fatty acids and 0.1% less zinc, and for a substance of this nature the difference is negligible. I would recommend the second method when the oleate is to be used solely for ointment, as much time is saved in collecting and drying; but that made by the first method is vastly superior for the powder form, as it is readily friable and easily mixed with other powders.

Having had to examine several samples of citric acid for impurities, I did so according to the suggestions in the report of the Committee of Reference to the Pharmacopoeia Committee, and herewith append the results :

Standards—Lead, 5 parts per million; sulphates, not more than would be produced by 5 c.c. BaCl₂ solution added to 1 c.c. N/1000 H₂SO₄ in 50 c.c. H₂O.

Lead	Sulphates	Calcium	Arsenic	Other Metals
Sample 1 ... 6. million	Trace	Trace	Free	Free
" 2 ... 5. "	Free	Free	Free	Free
" 3 ... 5. "	Free	Trace	Free	Free

With the exception of the first, and even it is on the borderline, all are within the standard with every impurity except the lead.

Several samples of tartaric acid were similarly examined, the Committee of Reference standards being :

Lead, 10 parts per million; sulphates, as in citric acid. The results are :

Lead parts per Mill.	Sulphates	Calcium	Arsenic	Other Metals
Sample 1 ... 16	Trace	Trace	Free	Free
" 2 ... 8	Free	Free	Free	Free
" 3 ... 22	Heavy	Heavy	Free	Free

It will be seen that No. 2 is the only one of the three which is within the standard, No. 1 having a large proportion of lead but otherwise good, No. 3 having an excessive proportion of lead and sulphate and calcium equal to the maximum allowed.

* Read before the Dundee and District Chemists' Assistants' and Apprentices' Association, December 10, 1909.

Pharmaceutical Society of Great Britain.

NORTH BRITISH BRANCH.

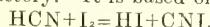
A evening meeting was held at 36 York Place, Edinburgh, on Wednesday, December 15, Mr. J. P. Gilmour (Chairman of the Executive) presiding. Before proceeding with the business of the meeting

The CHAIRMAN spoke of the death of Mr. James Paterson, Aberdeen, mentioning the subjects in which he had distinguished himself, and moved that they record in the minutes their sense of deep regret. Mr. BOA seconded, and the motion was adopted.

In the absence of Dr. R. R. Hallaway, Ph.C., Carlisle, the ASSISTANT SECRETARY read his paper on

SYRUP OF VIRGINIAN PRUNE, B.P.

The author's attention was first drawn to this preparation by finding he could not make a syrup which resembled in taste or odour the syrup sent out by some wholesale firms, though he followed the B.P. process exactly, and carefully examined the bark used to see if it corresponded with the B.P. description. The bought syrup varied, but in most cases the syrup was much deeper in colour and much stronger and more astringent in taste than the home-made article. The author pointed out that there has been a change of opinion concerning the value of this preparation in America. Formerly great value was placed upon it in certain kinds of cough, owing to the trace of hydrocyanic acid present, but leading writers on pharmacology now only regard it as a flavouring. The author then reviewed the American literature on the subject, mentioning England's criticism (1906) of the present U.S.P. syrup (he prefers the 1890 as being richer in colour and more astringent), Buchner's commendation (1908) of Cline's process (maceration of the bark for four hours in water at 60° C., then percolating with glycerin), and Beringer's criticism (1909) of the latter. Cowley has confirmed the observation that more hydrocyanic acid is obtained when the temperature is elevated. Hawkins' work (B.P.C. 1889) was also referred to, and Dr. Hallaway proceeded to describe his own work, the greater part of the paper being taken up with details of the experiments on methods for estimating hydrocyanic acid before a quite satisfactory one was found. The method recommended by Squire (N/100 AgNO₃) and the U.S.P. magnesia method were not good, but he finds the method of Fordos and Gellis (Sutton's "Volumetric Analysis") satisfactory. It is based on this reaction :



One c.c. of N/20 iodine solution = 0.00067 gram of HCN. The test is applied to the distillate from the syrup. There was a little trouble at first in knowing when the end-point occurred. The following are practical galenical points from the paper :

By using a mixture in the proportion of 9 fl. oz. water to 1 $\frac{1}{4}$ fl. oz. glycerin to percolate the bark, a syrup was prepared much deeper in colour and more astringent in taste than a B.P. syrup made from the same bark. The B.P. syrup, however, is much pleasanter. Comparing the non-B.P. syrup with some commercial syrups, it seems very probable that some manufacturers adopt this method or the U.S.P. 1890 one.

The bark used was a young one. On preparing two other syrups—one from the B.P., the other the U.S.P. 1890 formula with thick dark-coloured pieces of bark—they were each darker and more astringent, but the difference was slight.

A sample of syrup made by the process recommended by Lucas was very agreeable in flavour, and the colour was a little deeper than that made by the B.P. process. It was also decidedly stronger in hydrocyanic acid.

The filtration of the expressed liquids was found most difficult, through the filter-paper getting blocked with the very fine particles suspended in the liquid. An experiment showed that the hydrocyanic acid lost by evaporation from the percolate in the receiver could be ignored.

In an experiment to ascertain how maceration with excess of water acts in extracting hydrocyanic acid 25 grams of powdered bark was macerated in 166 c.c. water for forty-eight hours, then 50 c.c. filtered off and distilled. This showed that 0.0126 gram of HCN was extracted by the 166 c.c. of water, or 65 per cent. of the acid con-

tained in the bark. Altering the time of maceration to twenty-four or seventy-two hours made practically no difference. The probable reason for the increased yield is that there is a relation between the amount of water used for maceration and the yield of acid, and that when the amount of acid liberated makes the concentration of the acid solution a certain strength, then the decomposition of the glucoside ceases. Adding more water lowers the concentration of the solution, and so permits decomposition of more glucoside. Therefore in the B.P. process, where little water is used for maceration, a low yield of acid is to be expected, as the liquid used for percolating remains too short a time in contact with the drug to decompose more than a trace of glucoside. The fact that Lucas's syrup contains more acid than a B.P. one confirms this, as in his process the bark is macerated with much more water than in the B.P. process.

Addition of glycerin increases the yield of hydrocyanic acid, thus agreeing neither with Beringer nor with Buchner.

The B.P. process extracts about 35 per cent., Cline's about 50 per cent., and Beringer's (with glycerin) about 70 per cent. of the available hydrocyanic acid; but even in the strongest syrup the hydrocyanic-acid strength would just be 0.008 per cent., or, roughly, one-thirteenth of the strength of cherry-laurel water, and to get a medicinal dose of hydrocyanic acid it would require to be given in tablespoonful doses. Cline's process is the best.

A note by Mr. J. C. UMLEY, Ph.C., F.C.S., was also read. Mr. Umley referred to a dispensing difficulty that occurs with this syrup—viz., precipitation of alkaloids with those syrups which are made with certain samples of bark as met with in commerce possibly not all derived from *Prunus serotina*. He submitted two samples as imported—one a comparatively thin bark, which might be of the younger branches of *Prunus serotina*, the other much thicker, more astringent, and giving an infusion much weaker in hydrocyanic acid. The syrup from the thicker bark is slightly darker in colour and less pleasant in taste. The syrup is now largely used for cough-remedies in which the important soothing bodies such as heroin and codeine are contained. With these alkaloids the astringent syrup, and, indeed, most of the syrups of Virginian prune on the market, naturally cause precipitation of the alkaloids. They should be dispensed, therefore, with the greatest caution. The difficulty can be overcome, or to some extent obviated, by the selection of bark containing a minimum of tannin. If the bark is continued in the new B.P., the characters should be set out, and, if possible, tannin-limitation tests included, so as to select a bark of the least possible astringency.

DISCUSSION.

Mr. BOA said that the Pharmacopoeia process for this syrup is very extravagant, as it required as much bark to a pint of syrup as would make a pint and a half of others of equal strength and flavour, but the percolate required is comparatively small in volume, and may be stronger in hydrocyanic acid. He considered that water alone at 95° F. is best for extracting the bark, and the B.P. syrup very good : he never had any complaints against it. The precipitation of alkaloids was a matter that had come under his notice often, and he was quite familiar with it, but the B.P. syrup (made a pint at a time) did not give (according to his observation) so large a quantity of precipitate as that shown by Mr. Umley. While the precipitation might be a disadvantage in the manufacture of proprietaries, he did not think that in the ordinary practice of dispensing it was a matter of deep interest. He had never been able to ascertain what purpose is served by the addition of glycerin to the B.P. syrup. In his opinion it is much better without it.

Mr. WILLIAM DUNCAN said it was alleged to prevent precipitation in the syrup.

Mr. BOA replied that he had made syrup of Virginian prune in considerable quantities without adding glycerin, and there was no tendency to precipitation.

Mr. DUNCAN said there were many spurious barks on the market. He had seen two in the past six months. He

described the method which he adopted in making the syrup before it was official, and said he did not add glycerin. Mr. Umney's note was a very good one. He had had occasion with Mr. Brown, his colleague, to observe that in making Brompton mixture with heroin the tannin of the infusion of roses always causes precipitation of the alkaloid.

Mr. Brown said he agreed with Dr. Hallaway in recommending a process which reduces or gets rid of the tannin as far as possible, because it interferes with the action of the enzyme and prevents the formation of hydrocyanic acid. As to the estimation of hydrocyanic acid, he said that a very successful process is Buignet's modification of the copper method, which is exactly quantitative in its results. Mr. Umney's note showed the effect of introducing the acetyl radical into morphine : heroin is readily precipitated by tannin, but the same does not apply to morphine.

Dr. WATT remarked that the estimation of hydrocyanic acid formed by the splitting-up of cyanogenic glucosides had been investigated by Dunstan and Auld, and reported in communications to the Royal Society. They employed the Fordos and Gellis method, and all who had worked in that direction adversely criticised the B.P. method for estimating hydrocyanic acid. He suggested that the B.P. should change. Henry and Auld were of opinion that when a bark is macerated with water the glucoside is not completely split up, because the dextroglucose formed in the reaction retards the action of the enzyme. It is therefore apparent that the full hydrocyanic-acid content cannot be determined by percolating the bark with water. Dunstan, Henry, and Auld found that to get exact results it is necessary to extract completely the ground material with 90 per cent. alcohol in a Soxhlet apparatus. The alcohol is then distilled off and the residue dissolved in water to which 10 per cent. of sulphuric acid is added. This is then distilled, and the acid estimated in the distillate by the method of Fordos and Gellis.

Mr. RUTHERFORD HILL said that, like Mr. Boa, he had difficulty in understanding what could be the reason for adding glycerin to the syrup. Mr. Duncan suggested that it was to prevent precipitation of the tannin, but he did not quite see why the tannin should precipitate. In a strong sugar solution like that precipitation should not take place. If syrup of Virginian prune was intended to furnish a preparation giving the flavour of benzaldehyde and the sedative action of hydrocyanic acid, why should they go all the way to Virginian for a bark frequently of doubtful identity to get these two things? He submitted a specimen of benzaldehyde prepared by saturating the desired quantity of water with benzaldehyde, dissolving the requisite quantity of sugar in the liquid, and adding 0.01 per cent. of hydrocyanic acid. Except for the colour, which could be easily adjusted, this preparation seemed to correspond pretty closely with the official syrup of Virginian prune. He questioned if it was quite safe, as Mr. Boa suggested, to minimise the importance of the separation of alkaloids in a mixture dispensed.

The CHAIRMAN said he had had experience of compound elixir of acetomorphine, which is coloured and flavoured with fluid extract of Virginian prune bark. It shows no precipitation of alkaloid, but contains 25 per cent. of glycerin, which probably prevents precipitation.

Mr. HILL next read a second paper by Dr. Hallaway on the

PHYSIOLOGICAL STANDARDISATION OF DIGITALIS

from the point of view of the pharmacist. In this the author said the pharmacist wants to know not only the best process for making a preparation, but the best way to keep it, and how long it will retain its activity under certain conditions of storage. Where chemical analysis fails and physiological tests have to be relied upon, the pharmacist is dependent on the pharmacologist; and the question may fairly be asked whether the latter has given the former the information which is required. Dr. Hallaway quoted the conclusions arrived at by Drs. Dixon and Haynes, showing that commercial tinctures of digitalis are much weaker than a standard tincture prepared by the B.P. process from a drug of good quality. They suggested that pharmacists should prepare the tincture in

small quantities only, and added that the standard tincture had not deteriorated in six months. He also referred to Dr. Martin's statement at the Newcastle Pharmaceutical Conference that digitalis-leaves, properly collected, dried, and stored, retain their activity for many years, and that the tincture suffers no appreciable loss in nine months, though samples two years old or more are practically inert. Dr. Houghton has also stated that tincture of digitalis prepared with 48.9-per-cent. alcohol lost strength at the rate of 9 per cent. per annum, and at the end of three years was still active. A fluid extract made with 62.7-per-cent. alcohol lost at the rate of only 4 per cent. per annum, and at the end of six years was quite active, having only fallen 25 per cent. Focke's experience is that tincture of digitalis kept in the dark deteriorates 10 to 17 per cent. a year, in the light 33 to 50 per cent., and that tincture made with 68-per-cent. alcohol deteriorates twice as fast as Houghton found extract to do. Dixon and Haynes' results throw doubt on these figures. Taking everything into consideration, the author thought the pharmacists are quite justified in using a shelf-bottle for dispensing stock of digitalis-tincture, provided it is kept out of direct sunlight in an amber-coloured bottle. We may conclude that six months is a safe limit of time to keep this tincture, and that every pharmacist should endeavour to prepare just sufficient tincture to last him for this period or less. Pharmacists are not justified in dispensing a tincture of digitalis the age of which they are ignorant of, and wholesale houses should label the tincture with the date of manufacture. He referred in commendatory terms to Dr. Houghton's work, and concluded that there is need (1) for work on the methods of extracting the drug, and (2) as to the best method of standardising ; adding that :

The Committee of Reference on the B.P. state in their report that physiological tests are not feasible. That may be so, but there is plainly a demand for drugs tested in this way. Even if it be not considered suitable to authorise such tests in the next B.P., could not the monograph on digitalis embody the results on physiological standardisation obtained by pharmacologists? They might also give the dispenser clear instruction as to the preservation of the crude drug and its preparations, and also how long these retain their activity.

DISCUSSION.

Mr. Boa thought Dr. Hallaway had expressed the general opinion of pharmacists on this question, and he agreed that it was easy to produce a very effective tincture of digitalis from leaves of good quality, and one which would keep well for a long time. He was inclined to think that physiological standardisation is premature.

The CHAIRMAN advocated recent infusion prepared from leaves of good quality as the best way of securing the essential action of digitalis.

THE VALUATION OF SCAMMONY RESIN : A COMPARISON was the title of the next paper by Mr. W. B. Cowie, Ph.C., F.C.S. In this the work done on scammony resins by Mr. Frank D. Taylor, reported in the "American Journal of Pharmacy," was compared with that of Cowie and Brander, and it was shown that the results in both cases are remarkably close all through.

Mr. Rutherford Hill and the Chairman briefly commented on the paper. At this stage Mr. Gilmour had to leave for the purpose of representing the Society at a reception given by the President and Council of the Royal College of Surgeons of Edinburgh, and Mr. Boa took the chair. He called on Mr. Thomas Wilson, Ph.C., to read a paper on

COLORATION IN A PHENAZONE MIXTURE.

The prescriptions discussed were as follows :

Caffeinae citratis	...	...	gr. xxxij.
Phenazoni	...	...	gr. lxxx.
Sodii bromidi	...	...	gr. xcij.
Aquam ad	...	...	5ij.

Caffeinae citratis	...	...	gr. xxvij.
Phenazoni	...	...	9vij.
Ammonii bromidi	...	...	9vij.
Aquam ad	...	...	5ij.

The mixture, instead of being water-white, was of a deep straw or yellow-brown colour. Though the mixture was made up in a variety of ways, the result was always the same.



